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The American Artisan
AND HARDWARE RECORD

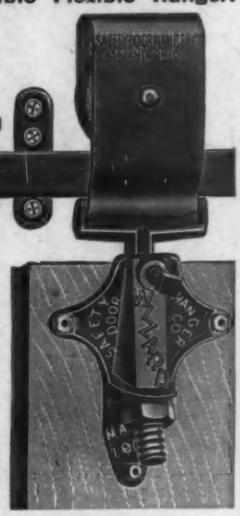
Vol. 51. No. 18. CHICAGO, MAY 5, 1906. $2.00 Per Year.

COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

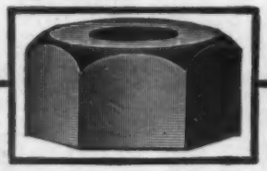
The Sun Always Shines
Upon the house where
"American Seal" Elastic Oil Cement
has been used
Strengthens Weak Spots and Stops Leaks
For bedding slate and tile Roofs — The best to be had
THE PRICE IS RIGHT!
The Wm. Connors Paint Mfg. Company
Troy, N. Y.

TRYING to do business without advertising is like winking at a girl in the dark: you know what you are doing but nobody else does.

THE WIZARD
Adjustable Flexible Hanger.
Prevents Doors from Dragging or Binding
Stronger Than Any Other Flexible Hanger, Easily Adjusted and Runs Smoothly.
Ask your jobber or write us.

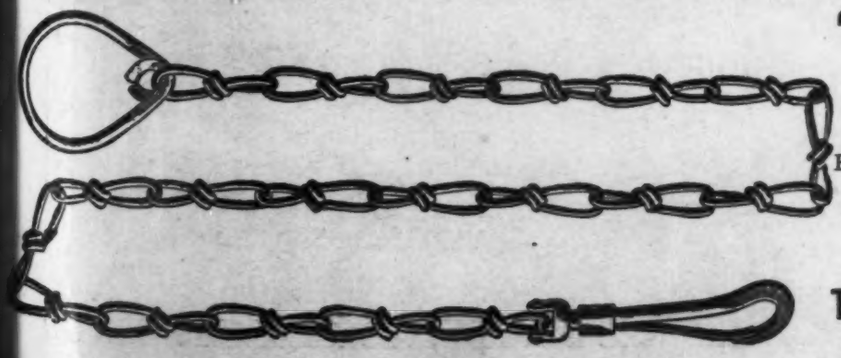


Safety Door Hanger Co.
Ashland, Ohio. Hamilton, Ont.



COLD PUNCHED
NUTS
HIGH GRADE
GOOD LOOKING
ACCURATE
SEMI-FINISHED
NUTS
Garland Nut & Rivet Co.
PITTSBURGH, PA.

BLACK DIAMOND FILES and RASPS
TRADE MARK
PERFECT—ALWAYS
Twelve Medals Awarded at International Expositions
Copy of Catalogue will be sent free to any interested file user upon application.
G. & H. BARNETT COMPANY
Black Diamond File Works PHILADELPHIA



"BROWN"
TIE-OUT CHAINS
Fitted with Stake Ring, a Swivel every ten feet, and a Swivel Snap.
A FREE SAMPLE WILL TELL THE STORY.
The BRIDGEPORT CHAIN CO.
BRIDGEPORT, CONN.

For Heating and Ventilating Large Schools and Churches

Made of Locomotive Fire Box Steel.

We Furnish Working Plans for Heating any Size Building

Occasionally Some "Outsider Drops into" Your Town and Secures the Best Heating and Ventilating Contract of the Season.

He comes to town—meets the Committee, secures his Contract and goes Home.

In due time the apparatus arrives—Then comes one of his Employees with a Bundle of Blue Prints under his arm—He hires 3 or 4 local men and goes to work.

In a week's time he has installed a first-class Heating and Ventilating Plant—(in some prominent Building)—that you did not even "make a bid for"—because you did not feel capable of doing the Work.

There are but two things necessary for This Class of Work—viz: The Proper Apparatus and the "Know How"—We make and furnish the Apparatus and our Engineering Department furnishes the "Know How."

We make a Specialty of the Heating and Ventilating of School Buildings.

Our Engineering Department will be pleased to Co-operate with you any time when you have a Job in Sight. You will find that it pays.

Pittsburgh Stove & Range Co.
PITTSBURGH, PA.

WHY THE B. & B. SELLS ITSELF

The B. & B. Wickless Oil Cook appeals at once to the average housekeeper as a common sense stove. She likes the simplicity of the burner construction which enables her to take it all apart for cleaning. She understands that if an oil passage stops up it is the work of only two or three minutes to put it in perfect working order again.

She likes, too, the security as to perfect construction which is guaranteed by our three distinct tests. This very unusual care on our part makes her feel that the B. & B. trade-mark really means all it says, "Brightest and Best." Is it hard to clinch a sale with a customer in this frame of mind? If you are skeptical, try it.

The B. & B. letter of explanation, which is sent in reply to all inquiries, gives a complete explanation of our stoves and methods of manufacture, A postal bearing your address will bring it on the first mail.

GLAZIER STOVE CO.
Chelsea, Mich.
Chicago Agent, W. D. SAGER, 38 Michigan St.

"B. & B." SPECIAL CABINET LINE

The new line of Wickless Oil Cooks, which we partially introduced last season and have completed for the present season, is an exceedingly attractive one to the purchaser of moderate means. The frames are entirely enclosed on the ends and back in the cabinet style; they are without the elaborate ornamentation of our "Regular Cabinet Line," but they are neat and attractive, and will prove an ornament in any kitchen. The burners of these stoves have not been cheapened in any particular.

OVR MAY FEATURES

Notion Sale—$4.50 Sale
White Sale — Fireworks

These are over and above the regular monthly lot of leaders in every department. And, besides The Goods are some pages of resultful plans for using them.

The notions of all lines — so largely made up of 5 and 10 cent items — form a Side Line sure to pay well in hardware stores.

Hence our May catalogue is particularly valuable to aggressive hardware men who are thinking of Branching Out. Anyway, special effort by our unique buying organization means much. Can you AFFORD not to know how much?

Our catalogue, remember, tells it all and we sell with the privilege of return within five days. Shall we send YOU our May Catalogue?

So good an issue is sure to be in extra big demand. Make sure of YOUR copy. Write now for catalogue No. MC 574.

BUTLER BROTHERS

Wholesalers of General Merchandise—By Catalogue Only

NEW YORK CHICAGO ST. LOUIS (And MINNEAPOLIS after January 1, 1907)

14, 15 and 16½-in. Fire Pot
Full Inside Measure.

REGAL PEORIA

Highest Grade Double Heating Base Burner for Hard Coal

A strictly high grade modern stove having all the latest improvements of practical value. **Very economical** and a **powerful base heater** by reason of our perfect flue construction which throws heat over entire surface of base, utilizing all heat. The Hot Air Circulating Flue draws cold air from floor and in its passage through the heated base up and through back flue to Hot Air Exit, the air becomes thoroughly heated. By attaching pipe to collar over Hot Air Exit this heat can be carried to upper room, or by reversing the damper this heat can be thrown into room occupied by the stove.

The Regal Peoria has **Improved Duplex Grate** with **Ball Bearing Shaking Ring.** Very easy to operate and removes the necessity of using a poker as this Shaking Ring cleans out thoroughly all ashes from outer edge of fire pot. Fire pot easily removed.

WRITE FOR PRICES AND TERRITORY

CULTER & PROCTOR STOVE COMPANY
PEORIA, ILLINOIS

The Schill

Mrs. Cataloghouse Customer says she can get a good range for half your price. You say, it's not so good. *But are you sure?* Have you got a range on your floor that really *IS* better—a range that won't buckle under any circumstances, that actually is a better baker, that does contain a really practical reservoir, that is so much handsomer that the customer doesn't need a spy-glass to see it?

There are many other features about the Schill Steel Range that actually show the difference. Perhaps it would pay you to inquire.

The Schill Brothers Company
Crestline, Ohio

Oaks, Furnaces, Cast Ranges, Steel Cooks, Etc.

Keep Out of the Line of Competition

An old and successful stove man says:

"I was always on the lookout for something better than I had; I always tested new constructions personally, consequently made no mistakes."

THE GREAT RETORT LINE

has had many personal tests by dealers in the states of INDIANA, IOWA, MISSOURI and NEBRASKA, with most satisfactory results, for

RETORTS and SPECIALS

are built especially for the use of the coals used in these states.

Every stove a BEAUTY and as good as it is HANDSOME.

9 STYLES and 42 NUMBERS

giving dealers a greater variety to choose from, than any other line.

EXCLUSIVE agencies and FULL PROTECTION to dealers who wish to push the line.

Send for catalogue and prices, and wait or our traveler.

MARION STOVE CO.

MARION, INDIANA.

Here's a Snap for Wide-Awake Range Dealers

I am going to sell 1,000 400 lb. six hole steel ranges finished in Japan for

$15.00 Each

just to keep my boys busy and foundry running full blast. I'll sell the ranges too, so you'd better get in line and ORDER NOW

These ranges formerly retailed at $60 each. Send me a carload order and get my best cash discount or I'll give dating to firms with satisfactory credit. What better proposition can you ask for, if you have a little capital, are sufficiently enterprising, and want to make money?

DO YOU KNOW there is a big demand for the "Willard" Steel Ranges because they give perfect satisfaction, and don't cost too much? Then why don't you supply them? I would much rather sell to a good hustling dealer than direct to the consumer.

WILLARD STEEL RANGES

are advertised in many leading publications, and the people know them and want them. Get my prices—it means profits—DOLLARS—to you. Every sale leads to another. I can sell you a better range than you can buy ANYWHERE for the money, one that cooks well and bakes evenly and perfectly, and will last a lifetime, with proper care. Tell me how many ranges you can sell annually and I will make you a very interesting proposition.

AGENTS WANTED.

WM. G. WILLARD, Room No. 28 Willard Bldg., 316 CHESTNUT STREET, **ST. LOUIS, MO.**

A. C. BECKER, Osceola, Iowa,

Writes:

"I became a regular subscriber to THE AMERICAN ARTISAN when I entered the hardware field. I have remained one ever since. For me, it is the most interesting, the most instructive and necessary paper published No novice should start a hardware business without it. Without it, no veteran can hope to be a success."

A PROBLEM FOR YOU.

A problem for any Dealer who sells Furnaces—is to catch the customer who now gets away.

It is all a matter of the right goods.

Every year we help our Dealers — catch customers.

This means increases business for you—our business has increased too.

We can prove to you that "THATCHER" Furnaces are the right goods.

May we?

We will send you more information — if you will ask us.

Thatcher Furnace Co.,

110-112-114-116 Beekman Street
NEW YORK

GERMANIA

FOR HARD COAL. SOFT COAL OR WOOD

No picture can do justice to this Beautiful New Range with High Closet. And we've many others.

SEND FOR OUR CATALOGUE TODAY

SOUTH ERIE IRON WORKS
South Erie, Pa.

LOTS OF QUICK-HOT WATER FOR THE FARMER-MAN---AND OTHERS

Your rural trade generally demands a reservoir range, with an oven large enough to bake bread.

When they want a reservoir —want it big—plenty of hot water.

The Champion (Style G) has a copper reservoir, nickel plated outside, tinned inside, with galvanized cast iron heating pocket—never leaks.

Capacity 10½ gallons—more than a milk can.

A BARGAIN FOR YOU!

This Champion (Style G) Wellsville polished steel, oven 20 x 20½ x 13½, DOUBLE FLUE HOT BLAST DRAFT,

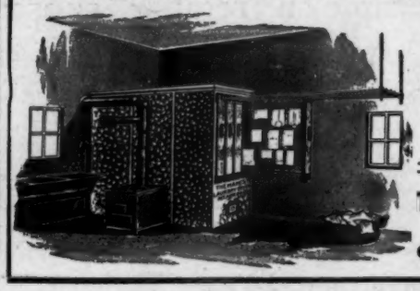
3 for $97.50

Cash with order.

Either 8 or 9 covers as ordered. Freight prepaid east of the Mississippi River.

THE CHAMPION STEEL RANGE CO.
Cleveland, Ohio
Hot Blast Oaks. Gas Stoves.
Steel Ranges.
Send for Catalogue A.

The "Manest" Family Clothes Dryer

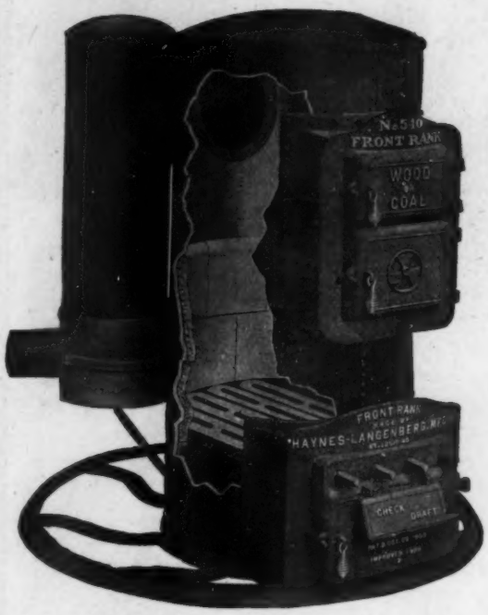


A Laundry Stove and Drying Cabinet Combined.

One fire boils the clothes, dries the clothes and heats the irons. Good profits to agents.

THE MANNEN & ESTERLY COMPANY
Successors to MANNEN & ESTERLY
CLEVELAND, OHIO

FRONT RANK STEEL FURNACES



are the peer of all Steel Heaters

NO DEALER SHOULD BE WITHOUT THEM

Front Rank Furnaces have been on the market for nearly twenty years, and at present, are being sold in every State in the Union where furnaces are used. **We guarantee them** to burn hard or soft coal, wood or coke, besides which **Any Hot-Water** combination can be used in the **Front Rank**

Write for Our 1906 Catalogue.

Handsomely illustrated—containing pertinent and pithy furnace facts.

HAYNES-LANGENBERG MFG. CO.

ST. LOUIS, MO.

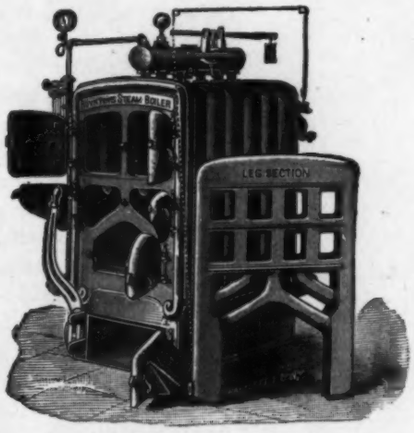
BOYNTON

A Standard for Fifty-Seven Years

HEATERS

Hot Air
Hot Water
and Steam

All kinds and sizes for
Hard Coal
Soft Coal
Wood



Leaders in
Reputation
Make
Styles
Sizes
Terms
Sales

SEND FOR CATALOGUE

The Boynton Furnace Company

(The Oldest and Most Up-to-Date Furnace Manufacturers)

207-209 Water St., NEW YORK 147-149 Lake St., CHICAGO

The KELSEY in Schools.

If there are any new Schools to be built in your locality this year, we want to hear from you.

We want to tell you how you can secure the contract for heating, with a good profit for yourself.

The KELSEY Warm Air Generator is particularly adapted for School-house heating.

It furnishes not only a very large volume of warm air, but distributes this air evenly in every part of the building.

The other important feature in school-house heating—Ventilation—is a strong point with the KELSEY System.

In no other system is it possible to get such a large volume of pure, warm air, with such a rapid circulation. In States where the Heating Laws are very rigid, the KELSEY is continually securing School Heating contracts from other bidders.

Our Engineering Department is at your disposal—and will make complete plans, blue prints and specifications for School Heating work—without charge to you.

But let us hear from you if there are to be any new Heating Systems installed in Schools in your vicinity.

You'll find it worth while.

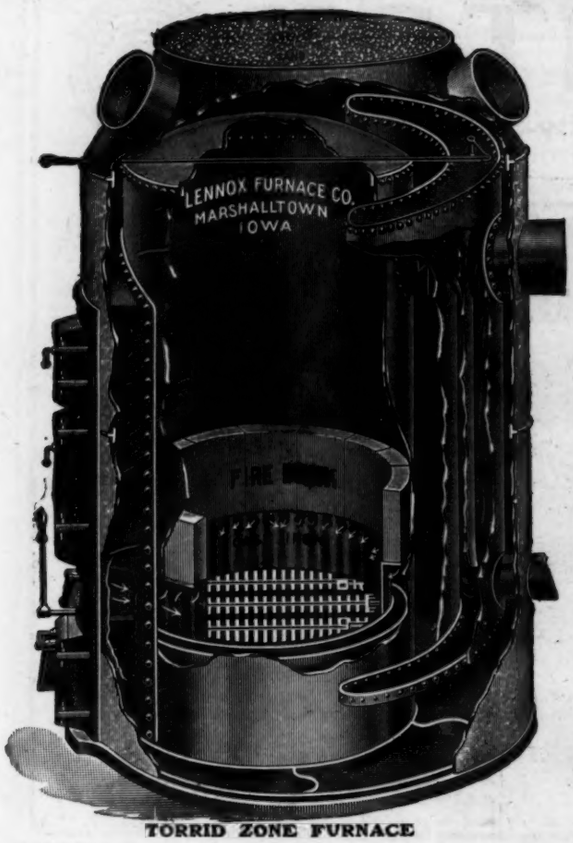
"There's only ONE Warm Air Generator"

Kelsey Heating Co., Syracuse, N. Y.

New York City, 156 FIFTH AVENUE
JAMES SMART MFG. CO., Brockville, Ont.
Sole Makers for Canada.

Western Sales Agents:
COOK & VAN EVERA COMPANY
38 East Lake Street, CHICAGO

BE MODERN—SELL STEEL FURNACES



TORRID ZONE FURNACE

They are easier to sell because the people want them. The people want them because **Lennox Torrid Zone** steel furnaces have demonstrated that the steel furnace is the only scientific and perfect furnace made. In the first place the fire, smoke and gases are confined within a gas tight and smoke tight steel dome riveted like a steam boiler. You no longer have a bon-fire under your house smoking thru packed joints which loosen or cracked fire pots which always come sooner or later to cast iron furnaces.

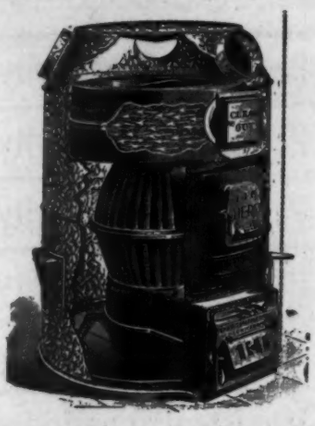
The Lennox Company now has the largest factory in the world for making steel furnaces. Its Torrid Zone furnace is the leading furnace sold in the Canadian Northwest where powerful heaters are needed. The Torrid Zone has been the pioneer among steel furnaces and has created the demand now felt everywhere for steel furnaces.

There is not a packed joint of any kind about a Torrid Zone. Its indirect radiator connected by a special dovetailed collar nearly doubles the heating capacity of the furnace—Torrid Zones are simple to operate and as easy to set as a stove. They do not get out of order and cost less for repairs than any other furnace made.

Write for 40-page Catalog

The Lennox Furnace Co.

Marshalltown, Iowa.



"HERO" FURNACES

Are adapted to any climate.

If you want the Best Line of Furnaces send for our illustrated catalog.

Charles Smith Co.

101 Lake Street, Chicago

THE NEW

LION FURNACE

Now Ready for the Trade

Can Use Hard or Soft Coal

Simple in Construction

and a Successful Heater.

Our Catalogue gives you full information.

Write for it TO-DAY

YOUNGSTOWN FURNACE & SUPPLY COMPANY

YOUNGSTOWN, OHIO

Address all western inquiries to our Western Distributors, COOK & VAN EVERA, 38-40 Lake St., Chicago, or to ROOD & McINTYRE, Kansas City, Mo., our Distributors in Southwest.

THE "X.L.O." WARM AIR FURNACES

are heavy, plain and effective. No "clean outs." Grate and Radiating surface large. Been under severe test 5 years. Catalog explains all about it. Write us. Special prices for 1905.

The Wellsburg Heating & Foundry Co.,

Wellsburg, W. Va.

Perfect Blast Device

Clinker Punch
Big Tubular Radiator
Secondary Radiator
Burns Soft Coal or Gas and can be changed quickly

THE BONNOT COMPANY, Canton, Ohio

Makers of GOOD Furnaces

REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

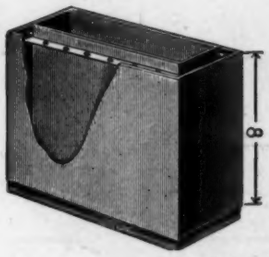
FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.

FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.

FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

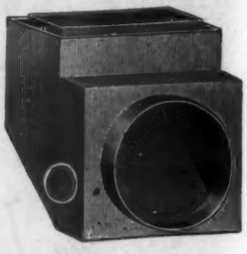
New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority



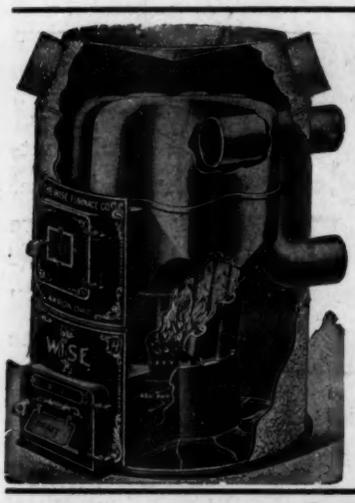
The Michigan Safety Furnace Pipe Company

Corner Brooklyn and Abbott Sts.
DETROIT, MICHIGAN



Manufacturers of Safety Wall Pipe, and Single Pipe and Fittings, in both tin and galvanized iron.

Send for our 1906 Catalogue.
We belong to no combination.
Our new factory insures you prompt delivery.
Don't get our name confused with other manufacturers.



The Wise Furnace

is the choice of the CAREFUL BUYER who demands value for every dollar expended.
Our catalogue tells you about it.

The Wise Furnace Co.

AKRON, OHIO

MONCRIEF

Warm Air Furnaces

Combine SIMPLICITY, DURABILITY, ECONOMY and CLEANLINESS IN USE

SPECIALTIES
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.
6-8-10 Long Street, CLEVELAND, O.

Sales Agent—J. C. KIMMEL, 3314 East 15th Street, Kansas City, Missouri

Where Successful business men have advertised is pretty safe to advertise.

WHEN WE COMMENCED BUSINESS

away back in 1857, we adopted as our watchword "QUALITY" and have persistently adhered to it.

The "MUELLER" is THE furnace of "QUALITY," and we know that there are enough people in the Country who want THE BEST, and are willing to pay for THE BEST, to warrant our going after this class of trade exclusively.

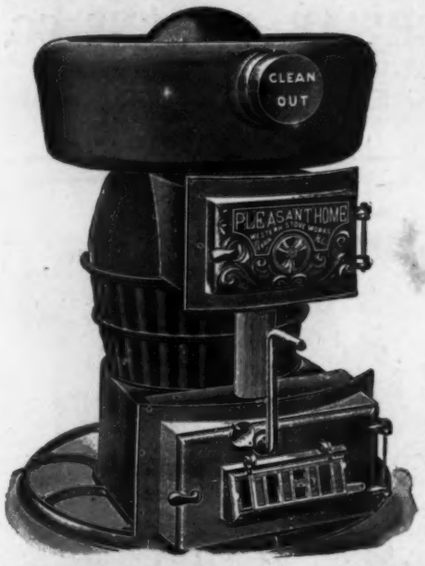
If you wish to give your customers the Best, then write us regarding the agency for our line of heaters.

L. J. MUELLER FURNACE CO. ESTABLISHED 1857 191 Reed Street, Milwaukee, Wis.

PLEASANT HOME

ALL CAST

Furnace

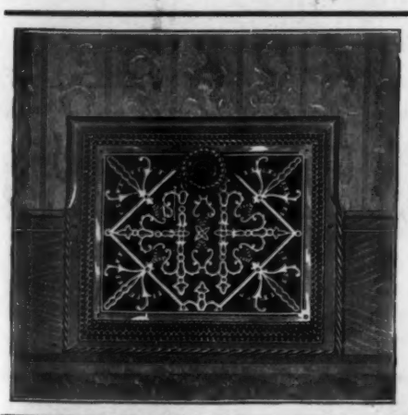


Comfort
Economy
Cleanliness
Convenience
Durability
and Utility

are combined in this XXth Century production. Strictly up-to-date.

Secure the Agency

WESTERN STOVE WORKS
PEORIA, ILLINOIS



THE SCHWAB SIDE WALL REGISTER

THE SCHWAB SIDE WALL REGISTER AND REGISTER BOX, NEATEST IN DESIGN, NOISELESS IN OPERATION, SUBSTANTIAL IN CONSTRUCTION, A FACTOR IN MODERN METHODS OF HEATING RESIDENCES FULLY ILLUSTRATED IN OUR REGISTER CATALOGUE. SENT FREE ON APPLICATION.

R. J. SCHWAB & SONS CO., The Furnace Men **Milwaukee, Wis.**

For quick results in advertising, or up-to-date trade literature, give me The American Artisan every time. *CHAS. HAHN, Mandan, No. Dak.*

The Gilt Edge Badger Furnace

is designed to give

Greatest Efficiency and Economy Possible

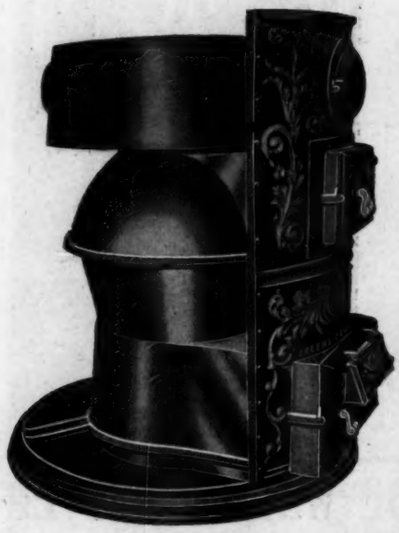
This is accomplished largely in giving it a high dome and a large radiating surface. Other furnaces of somewhat similar form have radiators not more than 16" in height; this furnace embodies one from 20" to 24". The combustion chamber is exceedingly large, as the body, containing the coal spout, is comparatively small. The products of combustion liberated are, therefore, compelled to ignite and burn before passing into the radiator, thus utilizing a great amount of heat that is otherwise wasted.

For Hard Coal Exclusively

Many other unique features will be discovered by a perusal of

our catalogue, which is sent free.

R. J. SCHWAB & SONS CO.
THE FURNACE MEN
MILWAUKEE :: :: :: :: WISCONSIN

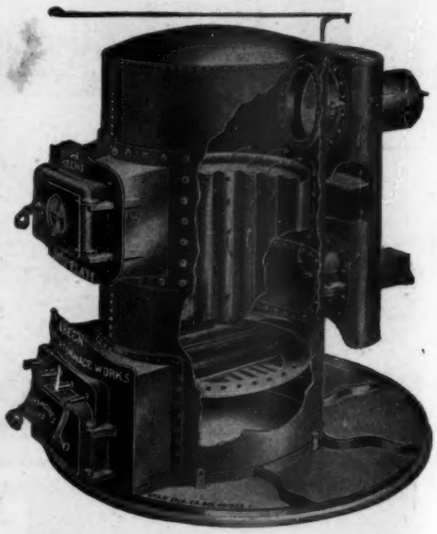


SPECIALTIES

are easy to sell and we manufacture a complete line. Six styles in all. Individual opinions differ as to the best construction for fire resistance, but no matter which style you sell, it is a Green Furnace and up to the Green Standard of material and workmanship. Our prices may surprise you.

Write us for Catalogue and Discount

GREEN FOUNDRY & FURNACE WORKS
DES MOINES, IOWA



THERMOSTATS

SPRAGUE DAMPER & VALVE REGULATORS Non-Electric.
10 years in use. Thousands giving satisfaction; they are guaranteed; also Sprague Electrics, and automatic checks for Steam, Hot Water and Hot Air Heaters of all kinds.
HOWARD THERMO. CO., - West, Oswego, N. Y.

VACUUM STEAM HEATING (Morgan Patents)
The Marvelous Fuel Saver Write at once for New Catalogues.
Kellogg-Mackay-Cameron Co. (Sole Owners)
Chicago Minneapolis Kansas City Seattle

Post....

Yourself by sending in $2.00 for a year's subscription to THE AMERICAN ARTISAN, published weekly at 69 Dearborn Street, Chicago, the best hardware, stove and tinware paper, published. Send for our list of premium books.

WHY NOT

When you are writing a letter of introduction,
When you are requesting payment of a debt,
When you are making application for a position,
When you are writing a draft to your own order,
When you are making an agreement for hiring a workman,
When you are assigning with power of attorney,
When you are making a merchandise broker's contract,
When you are applying for incorporation papers,
When you are taking a note from a married woman,
When you are desirous of acquiring a trade mark,
When you desire to send money to a foreign country,
When you desire to detect counterfeit money,
When you desire to draw up articles of co-partnership,

DO IT RIGHT?

You Will Learn How by Consulting The Manual of Business.

The Beet Sugar Gazette, Chicago, writes:

"'The Manual of Business' is intended to be a reference book for the many forms of business usage and correspondence which enables a man to carry on his business in accordance with the current commercial cust ms. The following table of contents shows the wide field covered by the author: Penmanship and Commercial Correspondence, Bookkeeping, Debts and Collections, Banking, Commercial Papers, Contracts, Notes, Patents, Measurements, Public Roads, Postal Regulations, Discount and Interest, Property, Real and Personal, Transportation, Rights of Parents, Parliamentary Rules and Forms of Resolutions, Dictionary of Business Terms, Business Abbreviations, Business Maxims. The book is well printed and bound, and will make a pleasing addition to any library."

Domestic Engineering, of October 25, says:

"'The Manual of Business' is a book of 263 pages containing a collection of correct business forms for executing all commercial instruments, commercial data and advice on the thousand and one questions of correct methods that are constantly arising in every-day business life. It is compiled from various sources by Sidney P. Johnston, and published by Daniel Stern, of 69 Dearborn street, Chicago. This work is intended as a reference book for retail merchants, and we believe with the compiler that it will prove 'a ready reference work in regard to the many forms of business usage and correspondence whose employment identified the man posted in commercial methods and commands an attention and recognition that the incorrectly worded commercial instrument is rarely accorded.'

"This work will also prove invaluable to the young business man, acquainting him with the forms in vogue in commercial life and increasing his commercial worth as he masters its points."

THE PRICE IS $3.50 A COPY. FOR SALE BY BOOKSELLERS EVERYWHERE, OR

DANIEL STERN, 69 DEARBORN STREET, CHICAGO.

FURNACE

AMERICAN PATTERN

PERFECTLY RELIABLE ABSOLUTELY UNIFORM
EXCEEDINGLY HANDSOME

THREE TIMES AS STRONG AS JACK CHAIN

TWICE AS STRONG AS ANY OTHER STYLE CHAIN

WILL NOT RUST! WILL NOT BREAK! WILL NOT KINK!

MADE ONLY FROM THE VERY BEST COLD ROLLED STEEL

POLISHED—NICKEL PLATED

NOTE:

When installing a high grade furnace, why run a cheap and unsatisfactory chain into a living room for regulating purposes?

The householder thinking he has bought a good furnace will expect the attachments which go with it to be of equal reliability. What will be his impression, therefore, when he finds it necessary to repair chain for regulating the dampers of said furnace, as it is a fact that Jack chain, and other cheap coil soon pulls apart and has to be wired up or otherwise repaired. Your client will naturally wonder whether possibly the same defects may not exist in the more essential parts connected with the furnace itself.

Furnace manufacturers will please their customers by equipping their furnaces with strong as well as handsome chain, not only for the sake of appearance, but to obviate even the suggestion of sham, which invariably goes with the combination of high grade furnace and cheap chain which is continually breaking.

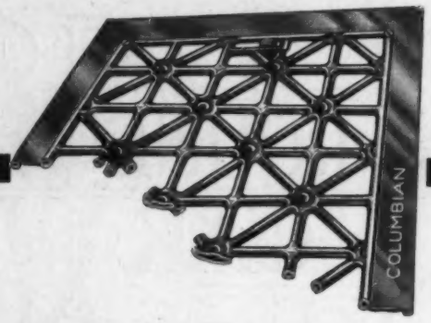
MANUFACTURED BY

ONEIDA COMMUNITY

(LIMITED)

ONEIDA, NEW YORK

CHAIN



The ONLY TUBULAR FACE

The Columbian Wrought Steel Register Faces are tubularly constructed, and is the only register face made in this manner.

The **Columbian** is made of **two heavy plates of Steel,** so closed over each other as to give a **tubular construction.** This contributes very much greater supporting strength to the face than if it were made of one sheet of steel equivalent in thickness to the two plates used. It also keeps the weight within reasonable limits.

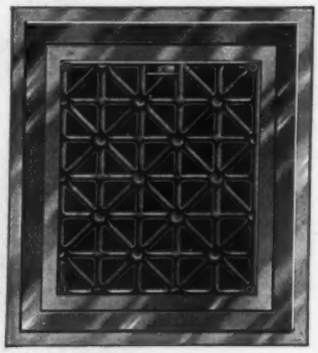
The **tubular construction** of the **Columbian** not only provides a greater supporting capacity, but equips it as well to withstand sudden blows or strain without warping or cracking.

Columbian Faces are so strong that no supporting bars or braces are employed to strengthen them, and when they are used for ventilating plates they may be placed in the thinnest of partitions.

Columbian All-Steel Registers on account of their shallowness may be used for side walls as well as floors and ceilings. This is a great help to the dealer, as it is only necessary to stock one style of register.

The **Columbian** is two and a half times lighter than an old cast register, yet will carry a greater load, and the light weight is a great saver in freight expenditure.

The Grecian design harmonizes perfectly with all interior decorations, and also leaves an extra large opening, but does not weaken the face.



Watch for our next ad. and in the meantime send for our catalogue No. 14. Either one will give a more detailed description of other good features.

THE COLUMBIAN HARDWARE COMPANY

CLEVELAND, OHIO

168 Church Street
NEW YORK

132 Market Street
SAN FRANCISCO

26 Lake Street
CHICAGO

"Litchfield, Mich., Dec. 21, 1905. We, the members of the School Board of District No. 2 of Litchfield, purchased a Round Oak Furnace of T. J. Kennedy & Son, Hanover, Mich., for our school house about one year ago, and have found it superior to any other we have used; it being the fourth one we purchased and used in this building. We have found it superior as a heater and it saves from ⅓ to ½ in fuel.

L. A. HOWARD, Director
A. J. LOVEJOY, Treasurer
H. N. FERRELL, Moderator
L. C. FEIGHNER, Trustee
D. MILLER, Trustee"

We publish the above testimonial to call attention to the fact that school houses can be successfully heated and ventilated by the Round Oak Furnace and Round Oak Methods of installing. We give the planning of school-house heating particular attention and specially solicit inquiries regarding jobs that have proved failures.

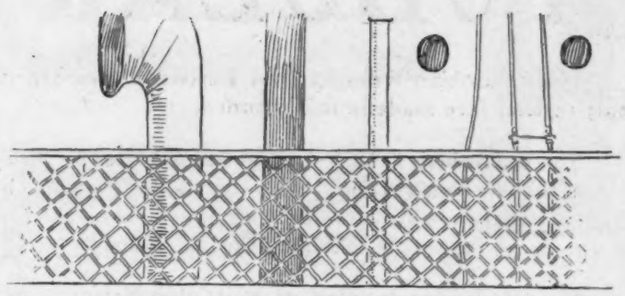
ESTATE OF

P. D. BECKWITH

FRED E. LEE, Manager

DOWAGIAC, MICH.

MAKERS OF GOOD GOODS ONLY



"Aufwiedersehn."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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CHICAGO, MAY 5, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

The Year's Record.

When the members of the National Association of Stove Manufacturers gather together at the Waldorf-Astoria in New York next Wednesday the thirty-fourth year of that organization will have come to a close. It has been a busy year for the officers of the association and they have well deserved the success which has attended their efforts in behalf of the stove manufacturers of the country.

The faithful and efficient services of Secretary Thomas J. Hogan in past years have not passed unnoticed, but it would be the apotheosis of punctiliousness to refuse on the ground of delicacy to give him at this time the meed of praise which he so richly deserves.

Secretary Hogan has made a very active personal canvass of the stove manufacturing fraternity during the past year and the results are manifest in the increase of membership and in the development of the spirit of unity and co-operation which pervades the Association.

Contributing largely to this spirit of peace and unity in the stove manufacturing world has been the Maryland and Virginia Stove Association, which Secretary Hogan organized at Baltimore in January, 1906. This territory which has been the field of ruthless and open hostility for seven years has fallen into line for unity and co-operation and the result has been increased satisfaction and prosperity not only to those who occupy this immediate field but to all stove manufacturing interests as well. The kindly diplomacy and ready tact of Secretary Hogan is responsible in large measure for this happy consummation.

There are now under the wing of the National Association eight local associations, six of which now have paid secretaries. The Southern Association has been reorganized and strengthened and consolidated with the Louisville and Evansville associations.

President Warren and Secretary Hogan have perfected a system of team work which has exerted a very beneficial influence upon the association work. President Warren has attended several meetings and spoken energetically against stove repair piracy. This has been the principal subject of discussion at these meetings and it is felt that much good has been accomplished.

The members of the National Association of Stove Manufacturers may congratulate themselves upon their officers. The success of the association is due in very great measure to their untiring and intelligent services.

As secretary of the Stove Founders' Defense Association Mr. Hogan has worked efficiently with the other officers and they have accomplished a very creditable work, the value of which will be appreciated when the amicable relations maintained between the stove founders and their employees are compared with the trouble which the members of the American Foundry Association have had with their employees. The latter are now out on a strike and the record of the past year is one of constant friction and strife. The stove manufacturers have reason to be proud of their Defense Association and the men who have made it so successful.

Strike Hits Iron and Steel.

WITH the exception of the passenger and lumber business, traffic on the Great Lakes is at an absolute standstill as the result of a strike of the mates, longshoremen and marine transport workers. If prolonged to any extent this strike may force a cessation of work in the iron and steel trade. Stocks of ore on Lake Erie docks are about wiped out. The new supply has not been sufficient to replenish the stores. Ore on furnace yards has about all been melted. The stoppage of new supplies from the Lake Superior region must of necessity drive many of the furnaces into idleness if the strike continues for two weeks or longer. This applies principally to the furnaces making foundry iron. A halt in furnace production means a halt in the foundry trade and a consequent shutting down of factories depending upon foundry products.

The General Outlook.

THE ERA of unparalleled prosperity which began in 1896, and which has progressed steadily with scarcely a perceptible slackening in its rate of advancement, continues unabated. In spite of unprecedented conditions in the money market there is no evidence of any imminent material change. Money is tight, call money sold for 125 per cent in December, 60 per cent in January and 30 per cent in April, but commodities of all kinds, including labor, tend constantly to seek higher levels, building operations continue to break all records, railroads are ordering rolling stock and constructing great stations and the real estate market is displaying great activity.

The consumption of commodities continues on an

enormous scale, making a steady demand on productive and distributive industries. Gauged by railroad earnings, distribution of general merchandise is at high water mark. Shipments to the interior, of all the leading staple lines give continued evidence of general prosperity.

Conditions are without a parallel. It is probable that barring a great crop failure or some other world calamity the price level of commodities, wages and land will continue to rise for some time to come. The conditions which preceded the great panics of 1857, 1873 and 1893 are absent.

The Iron Trade.

AN INTERESTING volume on the iron trade of Great Britain has recently been issued by Mr. J. Stephen Jeans, for nearly thirty years secretary of the British Iron Trade Association. He points out that in 1882 the world produced 9,680,000 tons of finished iron while twenty years later the output was only 1,580,000. Great Britain shows a falling off in that time from 2,841,000 to 965,000 tons. On the other hand the world's product of steel has increased from 7,000,000 tons in 1882 to more than 36,000,000 tons in 1902, demonstrating that steel has largely taken the place of finished iron in the world's work. The author affirms that the German wire rod syndicate, comprising eighty-two plants, exported 19,524 tons of their products in six months on which their loss was $214,860, while on the other hand on 22,307 tons which they sold to home consumers, they made a profit of $293,280. German consumers were charged $62.40 per ton whereas only $35.00 per ton was obtained from the foreign buyer. A closer analysis of the conditions which produced such results would be very interesting. It is probably true that $62.40 per ton could not be maintained as the home consumption price if the 19,000 tons had not been exported. But to an impartial observer it does seem as if a better adjustment of prices could be made to secure a larger home consumption and a smaller loss on exportations.

Free Denaturized Alcohol

THE PLEA of the farming and manufacturing interests for the removal of the tax upon denaturized alcohol has had its effect upon President Roosevelt, according to good authority, and recent reports from Washington declare that he is seriously considering the advisability of sending a special message to Congress on this subject. The President is said to be actuated by two things, the desire of providing farmers, manufacturers and artisans with a cheaper fuel and light, and also, according to this authority, to begin his campaign against immoderate fortunes as represented by the greatest modern monopoly, the Standard Oil Company.

The "free alcohol bill" seems to have the support of all the members of the congressional delegations of the middle and southern states in the lower house, and they are exerting their influence upon their respective senators to secure the adoption of the bill.

The experience of foreign countries is cited as evidence of the large proportions to which the use of denaturized alcohol would attain if the tax were removed. In 1896, when the Belgian government took similar action, only 126,658 gallons were used. Six years of free alcohol saw an increase in the amount used to 924,421 gallons. In Germany the increase in eight years was from 10,302,630 gallons to over 100,000,000 gallons, two-thirds of which was used for power and heating purposes and cost 13½ cents per gallon. The remaining third was used for lighting and chemical purposes.

In Germany there are six thousand agricultural distilleries. Four thousand of these represent the chief activity of the farms on which they are located. The total value of products derived from these agricultural distilleries in Germany amounts to about $25,000,000 per annum. They are under government control. In Europe the alcohol heating stove takes the place of the gasolene stove for cooking and can be utilized without odor or danger of explosion. One of the convenient novelties largely used in Germany is an alcohol flat iron with a small reservoir, which being filled with alcohol and lighted, heats the iron for an hour's work at a cost of less than 2 cents.

In the United States an insistent demand for cheap fuel has arisen in the irrigable lands of the West. They are too far away from any supplies of wood, coal or gasolene. But cheap and abundant crops of potatoes are raised on these farms, which go to waste because of the absence of a market. If converted into alcohol and utilized for pumping and power purposes, the potatoes will greatly extend the agricultural area in the semi-arid region. In these sections of the country it would be necessary to establish agricultural potato distilleries, so as to save freight on the farm products and alcohol. This would undoubtedly be the genesis of a great industry and eventually we would have the unique experience of going to the great western plains for an important source of power for our smaller industries.

A cheap fuel of this sort, peculiarly adapted for small power engines, would give a great stimulus to individual production and help tremendously to stem the tide of combination and concentration in manufactures.

A Proof of Wealth.

IT IS impossible to contemplate such a disaster as that which befell the Pacific Coast recently without asking ourselves the question, what will be the effect upon the commercial life of our country? Following the Chicago fire of 1871 there was a decided slump in the prices of securities lasting for several weeks. The property loss of the Chicago fire was in the neighborhood of $200,000,000. It is too early to say what the loss has been on the Pacific Coast. The earlier reports made it as great as $400,000,000. Probably it is at least as great as the loss in Chicago. The nation is only a large, conglomerate individual. A financial loss to an individual, even though it may be small compared with his total wealth or even with his income, will nevertheless usually produce a certain amount of conservatism. The loss at San Francisco and in the neighboring cities, while not great when compared with the total wealth of the nation, is still large enough

to have a decisive influence upon our national prosperity for the immediate future. Two hundred million dollars' worth or more of wealth has been destroyed. As a nation, we are that much poorer. If this disaster had come at a period of acute financial depression, the effect might have been immediate and demoralizing upon the whole country. That such a result has not followed is ample proof of the financial soundness of the country. This is one silver lining to the cloud.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

A storekeeper in Fort Dodge, Iowa, says he never advertises because advertising tells his competitors what he is doing.

Presumably his competitors do not suffer from the same fear for he adds that he keeps informed about what they are doing and when they offer a leader he goes them one better and gets the trade.

Great people out there in Fort Dodge. Must sit around the old man's store most of the time, waiting for the prices to drop.

Though, why he ever lets anybody inside the store without a pass, is more than I can guess. Think of the danger of spies from the other stores coming in and getting on to his tricks.

Why the big Chicago department stores employ people who do nothing else but shop around at the other stores and find out for sure how the prices and qualities compare with their own offerings.

But I would not be surprised if out in Fort Dodge the old man's competitors respect his fears and stay away.

Oh, splash!

The old man's method, however, has some spectacular and dramatic effects. Imagine the ensemble.

A gross of paring knives, price five cents. One hundred and forty-four—to be exact—wild-eyed people sitting around on the counters and nail-bins day after day, each one desparingly clutching a battered old three-cent piece and waiting for the price of paring knives to be reduced within the limit of their means.

The proprietor standing grimly behind the counter at the front window—no, probably sitting. I cannot give my reasons, but I think he would be sitting. Atmosphere must be felt—it cannot be reasoned. Sitting, therefore, and watching the movements of his competitor across the street.

All is peace. The one hundred and forty-four are persistent but they are patient. Their time must come.

The proprietor arises with a weary sigh which, being interpreted, means "nothing didding," and goes home to feed the cow. Two blocks from the store he is overtaken by a breathless boy who informs him in a voice shaken with emotion that Keenkutter across the street has reduced the price of paring knives to four cents.

Does the old man blench. Nary a blench. Does he hesitate? Only to take one long, deep-drawn breath. The light of battle gathers in his eye. He snorts, as snorts a warhorse entering battle.

Leaving the unfortunate mooly to chew the innutritious cud, the old man hastens back to the store. The faithful one hundred and forty-four cheer madly and climb upon the counters with their feet. The old man surveys the assembled throng with stern joy, casts one malignant, defying look of hate across the street and cuts the price of paring knives down to a cent at one fell swoop.

The enemy retires defeated, disgraced and all but insolvent. The one hundred and forty-four, having expressed the exuberance of their joy, settle back patiently to await the next cataclysm which should enable them to spend the remaining two cents.

Again we say, Oh, splash!

* * *

WHILE MEANDERING down the street the other evening I bumped into Brother Copperlined standing in front of Pinchbeck's dry goods emporium.

"Just look at that window display, Sid; ain't it great?" he said. "I've been standing here for ten minutes watching the folks stop and rubber. I wish there was any way of making a hardware window as attractive as that."

"Oh, tush! old man, and tush again," I replied. "Wake up and remove a few cases of Black Sheets from your eyes, so's you can see a few things in your store that folks like to look at, less than a thousand of them, I suppose, but still there's enough.

"Of course, there's no denying that a woman isn't constitutionally built to pass a display of millinery, dress goods or lingerie without at least two looks and a half, but take my word for it, my friend, there's more in a woman's mind than just clothes.

"Where does the average woman spend the most of her time, in the parlor and on the street displaying her fine clothes, or in the kitchen and at the sewing machine? Guess once, that's enough. You've got forty things in your store at this moment that ninety out of every hundred women in this town need in their homes if they only knew it.

"Yes, sir, Brother Copperlined, you can dress up the windows in your store and make them just as attractive to the ladies as Pinchbeck's and much more so to the men. But follow Pinchbeck's example. He has spent money on his windows, lowered the floor as much as possible, removed the platform from in front of his store, put in a fine lighting system and actually invited folks to stop and look. Do the same and you'll have folks rubbering in at your windows also."

UP-TO-DATE.

TO THE AMERICAN ARTISAN:

The specimen sample of your journal mailed this office was much appreciated by myself. Your journal is certainly more up-to-date than many of the journals that reach this office.

I thank you for putting this consulate on your mailing list and assure you that it has been placed on the files of the office for reference by those who are interested in such matters.

Thanking you again, I am,

Very truly yours,

W. P. ATWELL, American Consul.

Roubaix, France.

News Siftings

David Fish, the pioneer stove and furniture dealer of Chicago, died Thursday of heart failure.

The Cribben & Sexton Company of Chicago lost their new warehouse and entire stock at San Francisco. The warehouse was built for them and occupied about a year ago.

The stove plant of the Raymond Mfg. Co., Middletown, Pa., was badly damaged by fire on the night of April 24. A large stock of stoves and many patterns were destroyed and the machinery considerably damaged.

Through the efforts of Mr. Edward W. Boshart, director of manual training in the High and Manual Training School of Ft. Wayne, Indiana, the school board of that city have installed a foundry in the manual training department.

Black Silk stove polish makes no dust. It dries hard and polishes with a beautiful black silky luster; the kind of polish that helps sell your stoves because it gives the iron the smooth and glossy appearance which pleases the customer's eye. It is put up in six family sizes and does not dry out nor rust through the cans. Made by the Black Silk Stove Polish Works, Sterling, Illinois.

The Chicago Stove Works of Chicago, Illinois, are having the best trade they have experienced in several years. They have improved and beautified their Gold Coin stoves and ranges and are placing on the market an entirely new medium-priced hard coal base burner called The Real Gold Coin. They are also having the greatest sale for their new medium priced steel range called The Bright Gold Coin.

The preference which many women show to the use of a portable oven placed upon the top of a gas stove rather than to use the regular oven has called the attention of manufacturers to the advantage of having an elevated oven. Many women prefer it because it obviates the constant stooping which a low oven involves. The Number 84 Ideal gas range manufactured by F. M. Borden & Brother, Philadelphia, Pennsylvania, has an elevated double oven, one for baking and one for broiling, and is an "ideal" stove in fact as well as in name.

A seasonable line of gas ranges, water heaters, mail boxes and sprinklers is described in an advance circular issued by the Champion Steel Range Company of Cleveland, Ohio. The line includes a large number of styles of hot plates and the well-known Champion hot water heaters. The manufacturers claim for their goods that the burners are proportioned and located with such scientific accuracy that perfect combustion of all the gas is secured, affording the greatest amount of heat for the gas consumed and avoiding the obnoxious odor of unconsumed gases.

THE STOVE MANUFACTURERS' CONVENTION.

As the plans and details develop for the convention of the National Association of Stove Manufacturers which convenes at the Waldorf-Astoria, New York City, next Wednesday and Thursday, it is becoming more and more evident that those who are unfortunately detained from the meeting by stress of business or circumstance will miss an interesting and profitable meeting.

The Western Association will hold their session on Monday, the Stove Founders' Defense Association will meet Tuesday and the National Association of Stove Manufacturers will convene Wednesday and Thursday.

The Committee of Arrangements are making active preparations not only for the progress of the sessions of the convention itself but also for the entertainment of the delegates and their ladies during their stay in New York.

The following gentlemen comprise the Committee of Arrangements: Chairman, William J. Myers, Union Stove Works; W. A. Mills, Abendroth Brothers; George H. Barbour, Michigan Stove Company; Edward Bowditch, Rathbone, Sard & Company; Frederick Will, Sill Stove Works.

On Wednesday night, May 9th, the Entertainment Committee will give the delegates a supper and entertainment, in other words a smoker, in the Astor gallery of the Waldorf-Astoria. Carlos Curti, the new musical director of this famous hostelry, has charge of the entertainment part of this event and promises a very interesting and entertaining array of talent. The ladies of the party will be provided with matinee tickets for one of the Broadway theaters for Wednesday afternoon. The delegates will be in charge of a reception committee, composed of the following well known gentlemen:

Chairman, E. E. Dickinson, Boynton Furnace Company; Dwight Richardson, Richardson & Boynton Company; George W. Butcher, Southard, Robertson & Company; A. L. Canfield, Danville Stove Company; William M. Crane, William M. Crane & Company; Charles O. Lyon, Thatcher Furnace Company, and H. S. Hilt, Manhattan Stove Works.

A special car has been engaged for Western delegates which will leave Chicago over the Lake Shore & Michigan Southern Railroad this evening at 5:30, reaching New York Sunday afternoon. Indications now are that this car will not accommodate all who wish to go and additional accommodations will be secured on the train.

THERMOMETERS ON ALL OVENS.

A number of additions to their line of stoves and ranges and some important changes in the dress of their goods has led the Globe Stove & Range Company of Kokomo, Indiana, to issue a supplement to their last catalogue. They announce that in the future all ranges will be equipped with oven thermometers. The hot blast attachments have been removed from the Grand Globe and Mascot Globe ranges and the back linings made two inches in thickness. The latter improvement has also been added to the Grand Active range and it has been given a nickel front protecting rod. A three-section sub-base has been added to the Premier range and the hot blast heaters will, if so ordered, be equipped with duplex grates for hard coal.

The Capital Globe steel range is one of the new addi-

tions to their line and has many points of special importance including pouch feed, draw-out duplex grates, interchangeable top plates, double rimmed covers and a hot blast fire-box which can be completely removed in thirty seconds. The fire-box has a heavy sectional lining through the slots of which superheated air is jetted into the combustion chamber. The air chamber back of the lining prevents the accumulation of ashes and guides them into the ash pan. Three new styles of cast ranges and stoves are shown and a new line of cannon and oak stoves. The Globe Stove & Range Company will be glad to send full details and complete information regarding any of these new lines of stoves and ranges as well as their complete catalogue to all dealers. When writing, kindly mention THE AMERICAN ARTISAN.

HIS SEMI-CENTENNIAL.

Very few of the friends of Wm. H. Cribben, secretary and treasurer of the Cribben & Sexton Company, Chicago, would suppose that he has passed his fiftieth birthday, and there is ground for the suspicion that Mr. Cribben himself would not have realized it if

Wm. H. Cribben.

the truth had not been mysteriously communicated to some members of the Cribben & Sexton force.

As a matter of fact Mr. Cribben's natal day passed uneventfully some weeks ago. The arch conspirators were aware of the date but they had planned a memento of the occasion which they knew would appeal peculiarly to Mr. Cribben, and this memento was difficult to secure. Birthdays arrive on schedule time but the great elks' head from Montana which was designed to gladden Mr. Cribben's fiftieth anniversary was several weeks late. It came, however, this week and was carefully convoyed to Mr. Cribben's Oak Park home the same evening by the full force of office and district managers, headed by W. B. Howland.

Upon Mr. Howland devolved the pleasant duty of making the presentation speech, which he performed in a graceful manner. Mr. Cribben responded feelingly. The formal exercises thus successfully carried out, some of the boys manifested an inclination to talk shop and this disposition gave evidence of becoming "Universal" when Mrs. Cribben solved the situation and also sprung a great surprise on all concerned by throwing open the dining room and inviting all present to partake of the best supper her kitchen could produce.

Those participating in the event, besides the family, were W. B. Howland, J. J. Hogan, J. Woods Smith, Chas. H. Cook, R. A. Wheeler, Geo. W. Howard, J. W. Walker and Chas. G. Newell.

ENLARGE THEIR PLANT.

The business of the Thatcher Furnace Company of New York city, for the past season has been so satisfactory as to produce a justifiable optimism, and extensive additions and improvements to this plant are in contemplation. A building equipped with modern machinery for all classes of work and including new steam boilers and electrical generating machinery, will be erected. This building will be fifty by three hundred feet in size and will be constructed principally of concrete with glass sides and a monitor roof, providing for an abundance of light. Additional real estate has been acquired across the street from the present plant, to which some of the present buildings will be moved. Following these improvements a considerable increase in the output of the company is planned.

THE SPECIAL RETORT STOVE.

The aim of every merchant is to keep as much out of the line of competition as possible, and to secure the exclusive sale of meritorious articles of merchandise, so that he can devote his energies to building up the demand without doing anything to promote the business of those who are competing with him. This general principle of merchandising applies with considerable force to the stove business. The stove dealer is required to give his business a great deal of attention and care. Folks are not buying stoves every day and when they do buy a stove they study the merits of the different stoves on the market and satisfy themselves that they are purchasing the one best suited for their needs.

The Marion Stove Company, of Marion, Indiana, manufacture the Retort stove, which is built upon an entirely different principle from any other stove on the market. Heretofore stove manufacturers have directed their efforts toward perfecting combustion in the fire pot and this has been practically accomplished by means of different applications of hot blasts, but the result of the blast is an increase of the fire and this requires increased pipe capacity.

In making the Special Retort, the manufacturers have applied the reverse of the blast theory and have built upon the principle that the larger the fire under

perfect control, the more economical it is. They have secured this by the use of a false top placed within the top of the stove, leaving a chamber above it as well as the combustion chamber below it. In use the desired results are obtained in this stove by filling the fire pot with coal to within two or three inches of the false top. The center of the fuel does not become ignited, the fire being confined to a wall about three inches thick, lying next to the shell of the stove. This keeps the shell as hot as the fire inside, while only a small portion of the fuel is burning. This stove will burn all kinds of fuel without change of any of its parts.

Full information regarding this stove will be gladly furnished by the Marion Stove Company upon application if you mention THE AMERICAN ARTISAN.

"QUICK MEAL" EVAPORATING STOVE.

The Quick Meal evaporating style stove number 962, which is shown in the accompanying cut, was originated by the Ringen Stove Company of St. Louis, Missouri, its manufacturers. It is their leading seller and it is said that more stoves of this size and style are sold than all other sizes of evaporating stoves combined. It is so arranged that baking and cooking can be done at the same time. It is complete in every respect and thoroughly suitable to the needs of a moderate sized family. All evaporating stoves of this company have an ornamental back which greatly adds to their appearance.

Ringen Stove Company's Best Seller.

Quick Meal stoves are constructed in accordance with the safety requirements of the National Board of Fire Underwriters and are on the list of permitted stoves.

CHANGE OF NAME.

The Hoosier Stove Company is the new name of the company which was recently organized at Marion, Indiana, under the name of the Marion Range & Stove Works. They are going to build a complete stove manufacturing plant at 26th and Adams street, have a paid up capital of $100,000, and are having a complete line of cast steel ranges and heaters made for them. The officers of the company are: W. H. Charles, president; C. C. Jamieson, vice-president; S. D. McClain, secretary; E. E. Blackburn, treasurer; W. J. Swanger, general manager.

PARKERSBURG BLUE.

The Parkersburg Iron & Steel Company of Parkersburg, West Virginia, are calling the attention of the trade particularly to their specialty known as Parkersburg Blue, for which they claim that it stands unexcelled in its class of blue sheets and that it is steadily gaining popularity wherever a sheet having a uniform blue surface is required. It is used in stove pipe, stove and range work and enters into general use wherever a comparatively inexpensive smooth surface must be had. This concern produces a better sheet known as Acme Polished, which is a product of higher finish and consequently higher price than the Parkersburg Blue. Acme Polished is in demand for the better class of stoves, ranges, stove pipe elbows, drip pans, etc. The Parkersburg Iron & Steel Company will be glad to send samples and quote prices to all interested persons. When writing, kindly mention THE AMERICAN ARTISAN.

MANUFACTURERS WILL HELP DEALERS.

The annual meeting of the American Supply and Machinery Manufacturers' Association was held at St. Louis on March 14th, 15th and 16th, with an attendance of seventy-one delegates. The association is less than a year old and has a membership of eighty-five manufacturers of supplies and machinery. The principle discussion was on the subject of the closer affiliation between manufacturers and dealers and resolutions were adopted declaring it to be the policy of the association to promote more cordial relations between the manufacturers and dealers and pledging themselves to use their individual efforts to induce supply dealers to become members of either the National or the Southern Dealers' Associations.

We are indebted to the secretary, Mr. F. D. Mitchell, for a copy of the report of the meeting.

THE REGAL PEORIA.

In the Regal Peoria the manufacturers, the Cutler & Proctor Stove Co., of Peoria, Ill., have produced a high-grade base burner which embodies all the most modern improvements. The Regal Peoria is a double heating base burner for hard coal. It has an improved duplex grate and ball bearing shaking ring.

It is a powerful base heater because the scientifically arranged flue construction throws the heat over the entire surface of the base. A hot air circulating flue draws the cold air from the floor and heats it thoroughly. This flue can be utilized for heating an upper room by fitting it with a flue pipe.

The Regal Peoria is finished in a handsome and ornamental design and heavily nickeled. The manufacturers will gladly send you prices and terms if you mention THE AMERICAN ARTISAN.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 38 to 43 inclusive.

The Detroit Wire & Iron Works has been organized at Detroit, Michigan, to manufacture wire goods. The capital stock is $6,000.00, all of which has been paid in.

Reporting on the firearm industry of Belgium, United States Consul McNally writes from Liege that orders are light from the United States, not 50 per cent of the usual trade having developed. This will not cause any heartburning among our domestic manufacturers.

A new factory for the manufacture of a combined spring catch and hasp block, a hinged hasp and lock for tool boxes and several other sheet metal specialties will be erected at Winter and Eugene streets, Cleveland, Ohio, by the National Manufacturing Company, a new corporation with offices at 228 Arcade, Cleveland, Ohio. The officers of the company are F. L. Felch, president; P. E. Nielson, vice-president; I. E. Weel, secretary, and G. S. Seal, treasurer.

E. C. Atkins & Co., the well known saw manufacturers of Indianapolis, Indiana, had their entire stock at San Francisco destroyed by the recent calamity. Their Secretary, Mr. N. A. Gladding, was en route to the Pacific coast at the time. He hastened to San Francisco and they have secured temporary quarters at 1055 Broadway, Oakland, California, where they have a complete stock of all their line. Their San Francisco manager, Mr. N. W. Neighbor and all of their employes are safe.

Joseph M. Hottel, well and favorably known in the hardware trade all over the United States, having been associated for a number of years with the Black Diamond File Works at Philadelphia, Pa., has made a change, and has now joined the forces of the new Carver File Company, proprietors of the Delta File Works, with offices at 3227 Frankfort avenue, Philadelphia, Pa. Mr. Hottel is vice-president of the new company and will have charge of the general sales and will give particular attention to the southern trade. We congratulate the Carver File Company upon having secured the services of Mr. Hottel, and we know that we are bespeaking the sentiments of his many friends when we wish him success in the new undertaking.

READY-TO-USE PAINTS.

This is the season of the year when the householder's fancy more or less lightly turns to thoughts of paint. As he comes up the street to his noonday lunch the meridian beams of the bright orb of day too often reveal the dilapidated appearance of the paint on the front of the house. The wise dealer will be prepared for the ensuing onslaught upon his paint department, and if such a department has hitherto been a stranger in your store we can only say that there is much profit to be made on the sale of paint. The Heath & Milligan Manufacturing Company, Chicago, make a specialty of their Best Prepared paints, their leading line of prepared paint for outside use. For inside work they have the Family prepared paint, and to meet the special requirements of painted floors they have produced in Creolite what they claim to be the most perfect of floor paints. To meet every possible demand, they have also prepared a screen door paint which comes in green and black only.

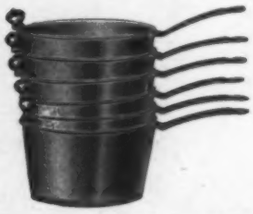
Color cards of these lines will be gladly sent to any dealer if mention is made of THE AMERICAN ARTISAN.

ROSELAND SPECIALTIES.

The New Standard flour sifter shown in the accompanying cut is one of the best selling specialties of an active line manufactured by the Roseland Can & Specialty Company, Rockford, Illinois. This sifter is said to have features possessed by no other similar article. The construction of the agitator allows of the sifter being very closely nested together, which is a very valuable feature in shipping and storing.

Because of the manner of construction of the agitator there is more room than is ordinarily found for flour; it is easy to keep clean; the agitator is not in the way when used for straining or dredging.

Among the other specialties of this company may be mentioned the Rocasco flue stop, which is fitted with a



"New Standard" Flour Sifter.

four-point fastening which is a superior device in that it will not spring back but will fasten the stop close to the wall. These stops are made of lacquered tin in brass finish with center medallions of assorted color and subjects. The feature of one make of this stock is that it can be papered over without leaving any marks on the wall over which the chimney hole is located.

The Roseland toaster has, as a special feature, hollow bars upon which the bread rests while being toasted. These are so constructed that air may circulate between them and the base plate and avoid burning the bread as the bars do not become overheated.

Information concerning these and the other articles of their make will be furnished by the manufacturers upon request to dealers who mention THE AMERICAN ARTISAN.

ADVANCE IN CUTLERY.

In probably no line of manufacture has the strain of competition been felt more than in cutlery. Many patterns are now put out by manufacturers for $4.00 per dozen, which a few years since were marketed at prices ranging from $4.50 to $6.00. This has been done notwithstanding the fact that heavy advances in material and wages makes the finished product cost more than before.

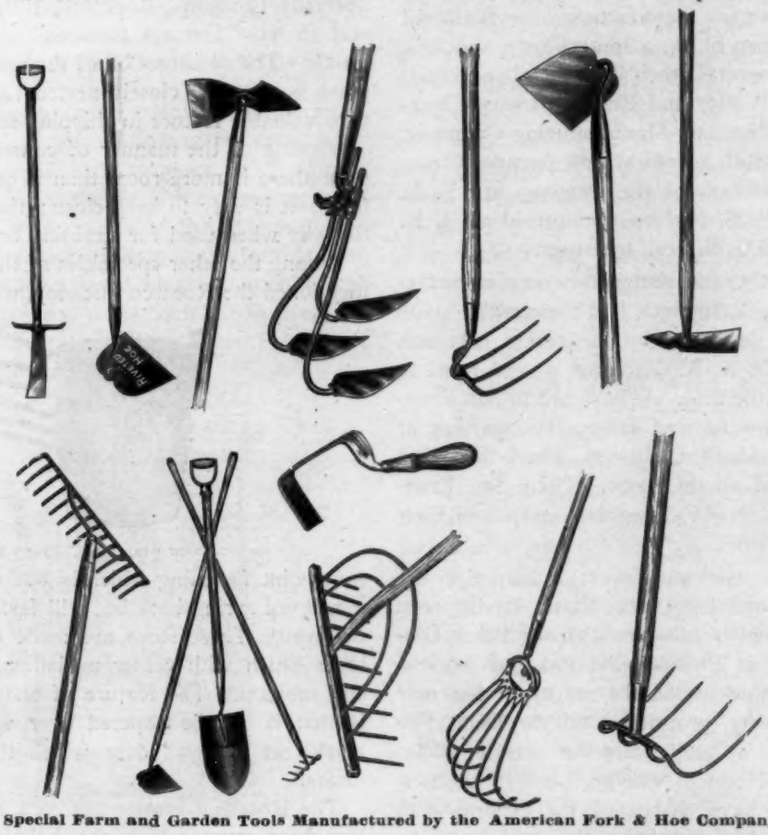
In addition to this, practically all cutlery manufac-

turers have made general improvements in their product in finish, gauge of blade, perfect working of springs, fittings, etc. It is estimated that similar goods cost from 7½ to 12½ per cent more to-day than when higher selling prices ruled. The strain on the producers of this commodity can be realized, when we consider the small number of manufacturers, who are now calling on the retail trade as compared with the number who visited this trade some years since.

It is reported that a meeting was called of all the cutlery manufacturers by one of the oldest cutlery concerns quite early this spring. It is now rumored among buyers that an agreement has been reached by all the cutlery interests, so that materially advanced prices will be put into effect. This advance was confidently expected to take place this spring. It is stated that the three classes of goods that will be most seriously affected by this advance will be what is now known as the twenty-five cent Jack line and the staple fifty cent Jack patterns and Pearls. The advance in the latter will be especially noticeable by reason of the very heavy advances in pearl scales consequent on the shortage of supply. We learn that some jobbing interests have already advanced prices on many of their patterns and buyers are advised that there will be a very general advance for the fall trade.

"INTENSIFIED" FARM AND GARDEN TOOLS.

There was a period in the history of the farming industry in the United States not so far removed but what it can be easily recalled by most of us when the rake and the hoe represented the customary outfit for the cultivation of garden spots and kitchen gardens. It has often been the subject for comment that in the very field in which man's work has been most laborious and at the same time the problem of tools most simple, there has been so much conservatism and lack of progress in the adoption of labor-saving appliances. The spading fork followed the hoe and rake period, and the hand cultivator and weeder came next. In Russia the farmer uses one tool to dig, rake, shovel, pitch, etc., but we are supposed to be a progressive people, and yet to-day there are dozens of useful, handy tools in the way of hooks, weeders, floral tools, turf lifters and edgers, hand cultivators, scuffle hoes, beet and onion tools, corn hooks, vegetable scoops, special styles of hoes, forks, rakes, etc., which are manufactured, but which have not yet come into general use. Outside of a comparatively small number of the most progressive hardware jobbers and dealers and some of the larger seed men, these tools have only a limited sale. This fact, however, does not reflect upon their desirability and merit. Dealers have never been actively urged to handle these special tools and farmers and gardeners have not been informed of the possibility of getting them. But with the gradual development of intensified farming and gardening, the demand for tools more particularly designed to do certain kinds of work has grown. The advantage of these tools lies in their exact adaptability to the work in hand and the consequent saving of time and labor.



Special Farm and Garden Tools Manufactured by the American Fork & Hoe Company.

The American Fork & Hoe Company of Cleveland, Ohio, state that retail hardware dealers are beginning to recognize the selling possibilities of such practical tools and are placing them on sale with gratifying results. This company manufactures a very extensive line of these special tools and are just beginning to advertise them to the trade. The goods are largely supplied through the jobbers, but full information re-

garding them may be obtained from the manufacturers if you mention THE AMERICAN ARTISAN.

IT'S IN THE FINISH.

An evidence of specialized effort to accomplish a practical object and the success which attends such efforts is exemplified by the Sealskin Swaty Strop Company of Ottumwa, Iowa, who manufacture razor strops and nothing else. The Sealskin Swaty strop is sold under an absolute bona fide guarantee and the manufacturers will refund the money if thirty days' use of their strop does not satisfy the purchaser. The manufacturers say that the Sealskin Swaty strop is made to sharpen razors and that its perfect adaptation to this purpose is due to the finish which is given it. They have a selling plan which they say will sell two dozen strops for any dealer in three weeks. Dealers are invited to correspond with them and a prompt reply will follow if you will mention THE AMERICAN ARTISAN.

HARDWARE JOBBER GROWS.

"Forced to the wall and going through it" accurately expresses the happy situation of the Trout Hardware Company, who have just leased and taken possession of the building adjoining their present quarters on the west at 178 East Lake street, Chicago.

The new building will give them fifty per cent additional space. The front half of the first floor in the addition will be devoted to the cutlery, sporting goods and fishing tackle departments, while the rest of the floor will afford increased conveniences for laying out city orders and taking care of all city business.

The business of the Trout Hardware Company has grown so fast in the last two years that they have had difficulty in taking care of it in their crowded quarters. This additional space will permit of large improvement in their facilities and put them in a position to take care of their greatly increased business.

DEATH OF T. FRANK IRELAND.

T. Frank Ireland, ex-president and member of the Executive Committee of the Michigan Retail Hardware Dealers' Association and until recently a member of the Joint Catalogue House Committee, died at his home in Belding, Michigan, Saturday morning, April 28th. The obsequies were held Monday.

Mr. Ireland was born on a farm near Sublette, Illinois, on September 18th, 1857, of Dutch and Scotch parentage. After a thorough course in the local schools, he finished his education with a three years' course at Northwestern College, Naperville, Illinois. He taught school for two years near Sublette, then went to Iowa, where he engaged in the grocery business. About two years later he returned to Illinois and began his career in the hardware business as a clerk in the store of George R. Keeling at Amboy, Illinois. Two years later he purchased the hardware and implement business of F. A. Thompson at Sublette, subsequently forming a co-partnership with Lauer Brothers. For five years the firm continued as Ireland & Lauer Brothers and then, selling his interest in the business to I. M. Crawford, Mr. Ireland moved to Belding, Michigan, and purchased the hardware and grocery stock of H. J. Leonard.

Mr. Ireland was married March 18th, 1880, to Miss

T. Frank Ireland.

Nellie M. Wilder of Sublette. They had three children, two boys and one girl. The oldest son has followed in the footsteps of his father and has been the active manager of his father's store since the latter's failing health required him to relinquish his activity some months ago.

Mr. Ireland was a charter member of the Michigan Retail Hardware Dealers' Association when it was organized in 1895 and at the Detroit Convention he was elected president for the ensuing year. At the time of his death he was a member of the Executive Committee of the state association and through his activity in association work and his membership on the Joint Catalogue House Committee, he was one of the best known men in retail hardware circles. Mr. Ireland was a positive and vital character and was possessed of an indomitable will and great energy. Announcement of his death while not wholly unexpected, nevertheless came as a shock to all who knew him.

WHITE ROSE AND WHITE DAISY.

Following up the success attained by their White Lily washing machine, two new machines have been introduced by the White Lily Washer Company of Davenport, Iowa. These machines embody several points of improvement over other machines of their

White Rose Washing Machine.

type. We present illustrations of them herewith, from which it will be easy to determine the nature of these improvements.

The White Daisy is of the rubber or ball bearing type and has a double ball bearing at both the top and

White Daisy Washing Machine.

bottom. The advantage of this is readily understood when you consider that any bearing must have two points of contact if it is to work in perfect alignment. The double ball bearing on the White Daisy furnishes these two points of contact and keeps the bearing in perfect alignment which makes it revolve easier and work better than single ball bearing machines of this type. The White Daisy has a corrugated tub which means that the clothes are not only rubbed on the top and bottom but also on the side. The cover is hinged to the tub. The wringer board is a new improvement, being a continuation of the frame and fitted with a sliding drip board so that the wringer can be kept attached to the machine all the time, saving the trouble of removing it at every washing.

The White Rose machine is claimed by the manufacturer to be the only bicycle ball bearing rotary washer on the market and it not only is provided with the finest grade of bicycle ball bearings but these bearings run in ball races, turned from the very best grade of Bessemer tool steel. These bearings enable the operator to produce a very high speed with the minimum power, and because of this action, the manufacturer claims that the White Rose will create more soap suds and wash clothes cleaner with less exertion than any other machine and in half the time. Both of these machines are made of a selected grade of Mississippi and Louisiana red cypress, varnished in a natural finish and bound with heavy galvanized hoops, making a very durable tub. The hinges are put on with bolts. They are guaranteed to be free from all imperfections in material and workmanship. The White Lily Washer Company will be glad to hear from dealers and will quote prices and send further information to all manufacturers mentioning THE AMERICAN ARTISAN.

WILL BUILD IN MINNEAPOLIS.

The announcement that the firm of Butler Brothers, Chicago, will erect one of their record-breaking buildings in Minneapolis, will not surprise anyone who has watched the remarkable growth of this enterprising concern during the past few years. The extent of their projected plans, however, is remarkable and reveals an appreciation of the possibilities of the northwest trade which will surprise many. Since 1903, Butler Brothers have maintained a complete sample room in St. Paul, and they say the results have been so satisfactory that the new house follows as a natural step. The Minneapolis building will be the largest structure in the Twin Cities occupied by a single mercantile concern. The ground area will be one hundred and seventy-three by three hundred and thirty feet. The building will be eight stories and basement, making a total of 513,000 square feet, or nearly thirteen acres of floor space.

The building will be of mill construction and will be equipped throughout with the latest improved devices for transacting a jobbing business with the utmost economy and dispatch. The exterior will be handsome, the first two stories being finished with vitrified paving brick and the upper stories of red brick, relieved by alternate courses of contrasting effect. There will be an ornate marble entrance and ten roomy elevators will provide means of access to the various floors. Eight of these will be freight elevators with a speed of two hundred and fifty feet per minute and two will be passenger elevators with a speed of three hundred feet per minute.

The sample rooms will be located on the top floor. The lighting of this floor will be arranged to give

the most natural effect for the careful examination of all sorts of merchandise. This will be accomplished by the use of "saw-tooth" skylights arranged to admit light from the north alone. This will make the top floor exceedingly light and yet will admit none of the direct rays of the sun.

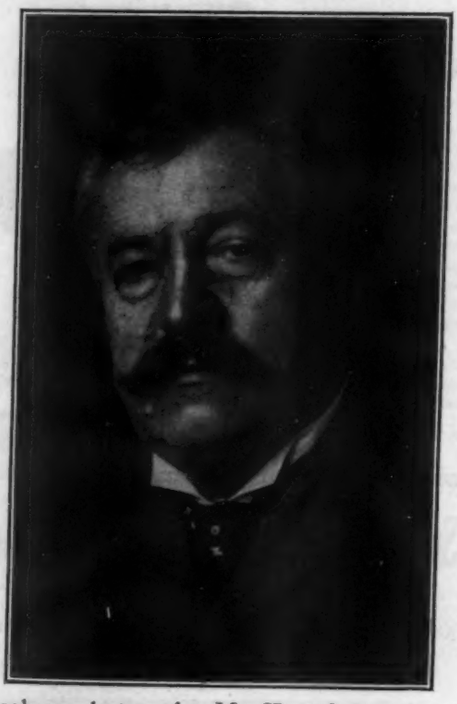
A railroad track connecting with the Minneapolis & St. Louis Railway will run through the entire length of the building. A considerable saving will be effected through the elimination of waste in cartage and handling, by loading and unloading merchandise direct upon their own shipping platform.

Regarding their new Minneapolis house Butler Brothers say, "It will be as complete as any of our other houses, for we have no branches. Each of our houses is a distinct entity in all that pertains to the distribution of merchandise in its territory. For all our houses together our buying is done through our central buying organization at New York and our selling through our central catalogue department at Chicago."

Butler Brothers' catalogue is in itself not only an encyclopedia of merchandise and prices, but it is also a liberal education on store keeping methods. Their May catalogue has just been issued. If you have not received one, we advise you to write them at once asking for catalogue M C 574.

RICHARD KAMPFE.

We present this week the portrait of Richard Kampfe, announcement of whose death was made in



these columns last week. Mr. Kampfe was a member of the firm of Kampfe Brothers of New York City, manufacturers of the celebrated Star safety razor.

IMPROVEMENTS IN COFFEE MILLS.

Within the last three months a lot of new machinery has been installed in the coffee mill factory of the Sun Manufacturing Company of Columbus, Ohio. This machinery has been evolved out of twenty years experience in the manufacture of coffee mills and was invented and perfected in their own factory. The Sun Manufacturing Company advise us that they are now entirely sold out of their old style coffee mills and that their shipments to-day are made from new stock which embodies many new features and improvements. A new catalogue has been issued covering this line of coffee mills which the Sun Manufacturing Company will be glad to mail to any dealer. When writing, kindly mention THE AMERICAN ARTISAN.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

La Jara, Colorado—The Mannassa Hardware Company.

Mason City, Nebraska—F. A. Ainsberk.

Broken Bow, Nebraska—S. P. Groat & Company.

Soldier, Idaho—W. Y. Perkins & Company.

Ballston, Oregon—George Haynes.

Albany, Texas—J. W. Putnam.

Hoxie, Kansas—John Hillstead.

Wapato, Washington—Ness & Wagner.

Lancaster, Ohio—H. P. Schott Company; capital stock, $10,000; incorporators are William P. Schott, Henry W. Walter and others.

Akron, Ohio—E. M. Sherwood.

Manitowoc, Wisconsin—Kercher-Lindemann Company; incorporators are Anton E. Kercher, Gustave Lindemann and others.

Walter, Kansas—Block-Way Hardware Company; capital stock, $10,000; incorporators are G. H. Block, Ross R. Way and Howard S. Way.

BUSINESS CHANGES.

Culbertson, Nebraska—Chris Roupp succeeds M. M. Bree.

Salt Fork, Oklahoma—J. M. Corn & Company succeeds C. S. Watson.

Sedgwick, Colorado—Sedgwick Hardware Company succeeds Isaac W. Wallace.

Agra, Kansas—Tipton & Heaton succeed T. E. Tipton.

Renton, Kansas—J. Herron succeeds D. C. Pitcher.

Bison, Kansas—Timken & Money succeed J. C. Meyer & Company.

Grainfield, Kansas—Conrad Brothers succeed E. B. Atchison & Company.

Perkins, Oklahoma—L. C. Shannon succeeds I. Moorish.

Pomona, Kansas—J. H. Dillon succeeds J. W. Spangler.

Lock Springs, Missouri—Achauer & Minnick succeed Achauer & Company.

Benklemen, Nebraska—J. W. Smith succeeds L. E. Walker & Company.

Omaha, Texas—G. L. May succeeds Coffee & May.

Rutland, Iowa—H. H. Gregory succeeds Gregory & Sheriden.

Reinbeck, Iowa—Robbinson & Terrall succeeds Robbinson Brothers.

Altamont, Missouri—W. A. McIntosh & Company succeeds Ellis & Kimes.

Pilot Grove, Missouri—Francis Schilb succeeds Schilb & Becker.

MISCELLANEOUS.

Hewins, Kansas—H. G. Mills; destroyed by fire.

Tombstone, Arizona—Frank B. Austin; deceased.

Green Bay, Wisconsin—Gotfredson Brothers; new building.

Fremont, Nebraska—Hamann & Son; destroyed by fire; loss, $3,000; insurance, $2,000.

Ironwood, Michigan—E. B. Williams; alterations.

Bowen, Illinois—Nash & Son; new building.

Freedom, Pennsylvania—John F. Howe Hardware Company; new building.

Williamson, West Virginia—A. H. Beall Hardware Company; burglarized.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

Our first advertisement this week, that of the Delphos Hardware Company of Delphos, Ohio, occupies a space four columns wide and four inches deep at the bottom of the page. Our reproduction shows the strength of the display. The use of black-faced type makes a very strong advertisement.

ATTENTION FARMERS!
AMERICAN FIELD FENCE
LOWER THAN EVER.
11 wire, 49 inch Fence, 30c per rod.
10 wire, 47 inch Fence, 28c per rod.
8 wire, 32 inch Fence, 26c per rod.
Place your orders now and take advantage of this opportunity as we can't tell how long these prices will remain.
Delphos Hardware Co.

The greatest virtue of this advertisement, however, lies in the fact that it says something. There is no beating about the bush—no attempt at fine language. The essential fact which is expected to interest the farmer is "American field fence" and the argument is in the price which is plainly quoted.

Our second example comes from L. E. Gordon, Lake City, Minn., and is a good example of how a good advertisement may go wrong for want of a little careful thought. The idea was all right and was properly expressed, but that was as far as the writer got. If he had given a moment's consideration to the

Everyone Building
a new home or remodeling an old one should not overlook the necessity and convenience of fitting up their home with a modern bath room and a perfect
Hot Water Heating Apparatus
simple in operation, no dirt or dust, most heat, smallest amount of fuel.
Old houses equipped without inconvenience to occupants.
Prices Reasonable for High Grade Work.
Ask me for estimates
L. E. JORDON, Telephone, 148-2; Residence 6-1 L-2-D

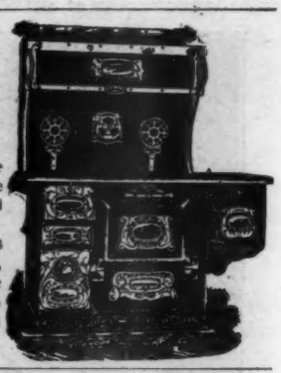
heading he would not have used the meaningless expression, "Everyone Building." Remember a headline must stand the test of being taken by itself. That is what a headline is for. It must arrest not only the physical eye but, what is more imortant, the eye of the mind. If he had said "Building a Home" he would have said a definite thing and arrested the attention of everyone interested.

Our other example is the range advertisement of the Simonet Furniture & Carpet Company of Stillwater, Minnesota. The heading is well written and goes right to the point. It has the merit of dealing with a subject which is intimately associated with home life, the most interesting subject in the world to the average man and woman. Coming down to the more vital part of the advertisement, that which deals with the particular ranges advertised, our criticism is that there is a lack of definiteness about the statements. There is so much that might be said about each of these well-known ranges that it would have been easy to pick out enough to fill up the space and

THE BEST
DEMONSTRATION
of a stove or range can be had in your kitchen where you have the best opportunity to judge of its cooking and baking qualities and also can get a correct idea of the fuel consumed. Forty residents of Stillwater and vicinity have provided themselves with MALLEABLE AND UNIVERSAL RANGES since our stove department was started, and we are daily receiving unstinted words of praise from all our customers.

THE MALLEABLE RANGE
shown in the annexed cut has a clear field. Its splendid qualities defy description and no user of the "Malleable" will ever use any other malleable range.

THE UNIVERSAL RANGES
are unexcelled and are the pride of the home. We carry The Universal in all styles and prices and guarantee each stove to do just what we claim for it, namely, cook better, bake better and wear better than any other steel range. As a fuel saver it has no equal.



All stoves sold on easy payments and if you wish we will take back your old stove as the first payment on any stove purchased from us.
We wish to call attention to our large line of kitchen utensils, crockery and dishes.

SIMONET FURNITURE & CARPET COMPANY
COMPLETE HOUSE FURNISHERS.
301-311 South Main st. Stillwater, Minn.
N. B. YOUR CREDIT IS GOOD WITH US.

make it more attractive. Some hint of the range of prices should also be given.

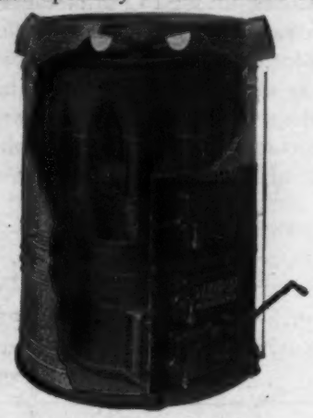
The two lines at the bottom calling attention to kitchen utensils might as well have been left out entirely. If the subject is worth mentioning at all, it is worth giving sufficient space to attract the attention of the prospective reader.

Heating and Ventilating

THE L. J. MUELLER FURNACE COMPANY.

The Chicago office of the L. J. Mueller Furnace Company, manufacturers of Mueller furnaces and boilers, Milwaukee, Wisconsin, was moved on May 1st from 98 La Salle avenue, to 89 Lake street. Mr. A. P. Dease, manager of the Chicago office is now comfortably settled in the new location and ready to demonstrate the advantages of the Mueller furnaces to all interested parties.

The Mueller specialty is the Double Radiator All-



The Double Radiator Furnace.

Cast furnace. For this furnace the manufacturers claim that it is the cheapest to buy because of its economy of fuel and its durability, a heater which can easily be sold in competition, and one on which any dealer can establish a reputation.

Deep cup joints are used throughout this heater and are self-packing and gas tight. They are so made as to provide at every point for the expansion and contraction of the castings. The firepot is made in two extra heavy parts, in thickness that varies from three-fourths of an inch on the smallest to one and one-half inches on the largest heater. It is deep and straight and does not allow ashes to accumulate on the sides, thus leaving the radiating surface sharp and effective.

The twenty radiating pipes and the dome are cast in one solid piece. The form, size and number of these pipes tend to retard the rapid escape of the products of combustion. The pipes are perpendicular, without any horizontal joints or projections, leaving them positively self-cleaning. Therefore the radiating surfaces are more powerful and the heater more economical in the consumption of fuel and the necessity of clean-out doors is obviated. The Mueller Furnace Company make a large number of styles of furnaces for different purposes, and will be glad to furnish information to any dealer. Mention of THE AMERICAN ARTISAN will bring prompt reply.

WILL MEET IN CHICAGO.

As announced in these columns last week, the American Society of Heating and Ventilating Engineers will hold their semi-annual meeting in Chicago on Thursday and Friday, July 19th and 20th. The coming meeting promises to be very interesting. The society is in excellent financial condition and the society is growing. Those who contemplate joining the society should send their applications at once to Secretary Mackay so that they may be acted upon. Secretary Mackay reports that more than a dozen applications are now in his hands which will be balloted upon this month so that those who are elected may enjoy the full benefit of membership at the coming meeting.

The members of the society are asked to prepare papers for the meeting and to send the titles to the secretary at the earliest possible moment and the manuscript itself as early in June as possible so that the papers may be printed and distributed in advance of the meeting.

THE PLEASANT HOME FURNACE.

A meritorious furnace which can be sold at a moderate price and give entire satisfaction is something for which every dealer has a constant demand. To meet this demand the Western Stove Works of Peoria, Illinois, have placed upon the market the Pleasant Home all cast furnace. This furnace embodies a number of very strong points. The grates are of the duplex style, extra heavy and easily operated. Each bar is independent of the other and can be removed or replaced at ease. The firepot is made in two ring sections, corrugated and very heavy. The feed door is extra large. The combustion chamber is scientifically proportioned to produce the greatest economy in fuel consumption. The radiator is cast in one piece and has a large amount of radiating surface. Being

The Pleasant Home Furnace.

cast in one piece, it is absolutely gas, smoke and dust tight. All connections have cupped joints and are perfectly air tight.

Correspondence with the manufacturers will secure additional information regarding this furnace. When writing, kindly mention THE AMERICAN ARTISAN.

The Stanton Heater Co., of Martins Ferry, Ohio, has opened an office in Pittsburg, for the sale of their Stanton seamless warm air furnace. The new office is located at 914 Empire Building and F. W. Shreve is the manager.

Principles of Intersection.

PART XXXIV. PLATE XIV.

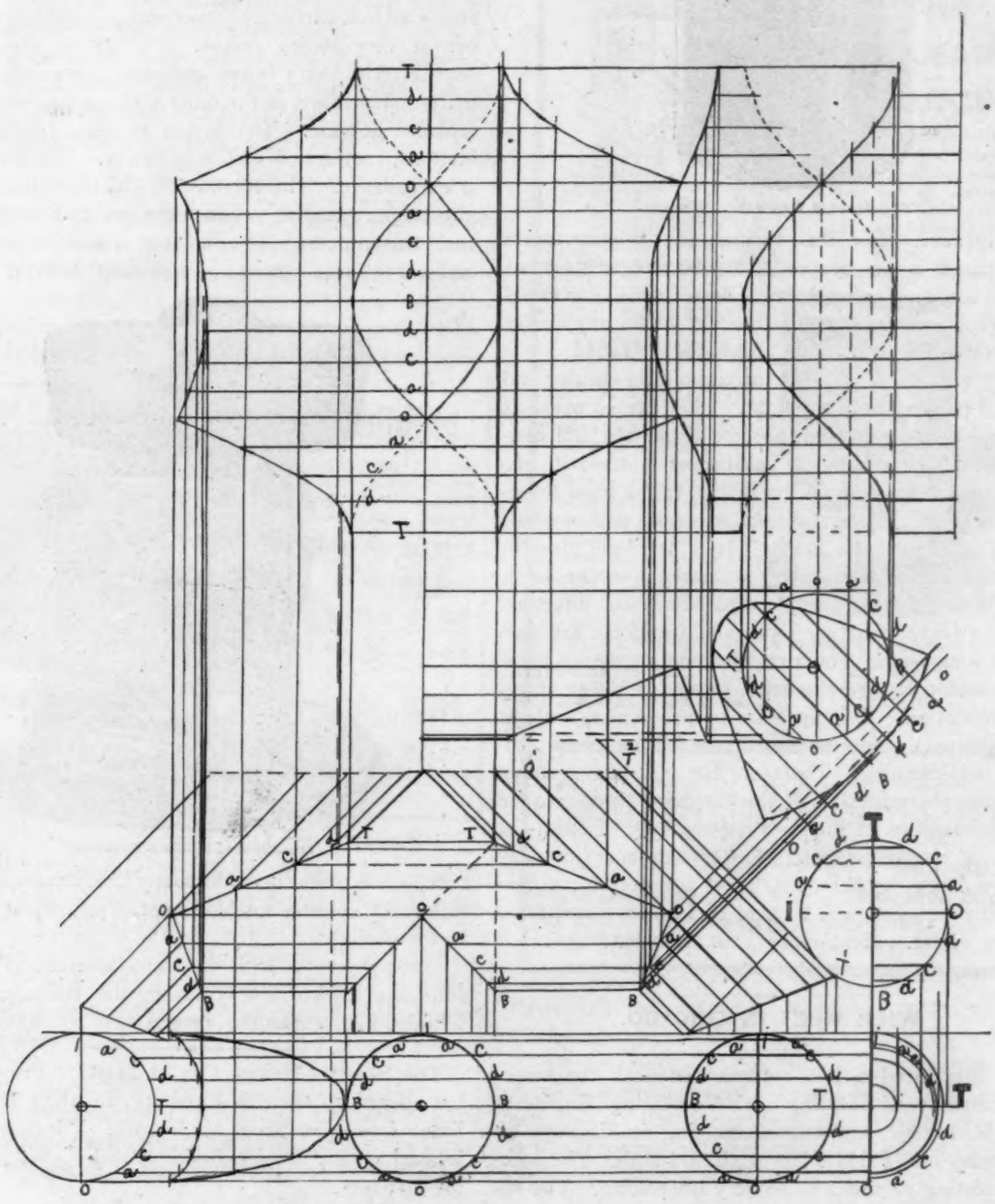
(Copyright, 1906, by Joseph P. Coleman.)

INTERSECTIONS BETWEEN CYLINDERS.—HOW TO FIND THE SHAPE CUT OUT OF THE INCLINED PIPE IN THE INTERSECTION.

The inclined pipe is pierced by the horizontal in points O-a-c-d-B-d-c-a-i, as shown in plan. In the pattern sheet we will use the lines o-a-c-d-T on each outside quarter of pattern, as shown, T representing the base of the inclined pipe and O representing the line on center of the inclined pipe, the other letters being between. In the pattern, the inclined pipe will join at the base line T. When formed in shape one-half of the section cut is shown as stated from O to T.

HOW THE LINES INTERSECT.

The inclined pipe is transferred to a horizontal position. The cutting lines are similarly placed in the new position, forming a right-angle as before. Being transferred, O in the new position is found on a vertical line, passing through O in elevation. The other points are also pierced by the vertical lines as shown, therefore point O intersects line O in pattern sheet in two places as shown, coinciding with the same points in the previous pattern proceeding towards B. Line through a, octagon cut intersects a-a- on pattern sheet to the right of O-O. Line through c intersects line



C-C in pattern sheet as shown to the right. Line through D intersects D-D in pattern sheet, also to the right. Line through B intersects line T outside lines in pattern to the right. Trace lines through the points, giving the section cut at lower end of the inclined pipe as shown in the pattern sheet. Continue to I on upper side. Line through a intersects a-a- in pattern sheet to the left of O-O. Line through c intersects c-c- in pattern sheet to the left of O-O. Line through d intersects d-d- in pattern sheet to the left of O-O. Line through T intersects T-T in pattern sheet, outside lines of pattern. The last points coincide with the points previously found in the other patterns, thus giving the required pattern of the section cut out of the inclined pipe in the intersection of the two pipes. The pattern for the intersection is shown in one piece to the right of the inclined pipe. This pattern is found by spacing the points o-a-c-d-B-d-c-a-o on a line perpendicular to the pitch of inclined pipe and drawing the parallels through the points o-a-c-d-B and a-c-d-T, cutting the lines in points shown. Lines joining points gives the pattern for the section cut in one piece as shown. In this pattern describe a circle as shown by the points T-d-c-a-o-a-c-d-B-d-c-a-o-a-c-d-T. Draw the vertical lines through the points, intersecting the pattern lines in points. Numbered similar, lines traced through the points, give a square elbow pattern as shown.

SQUARE ELBOW PATTERN.

This pattern is obtained by drawing vertical lines through the points on the circle. The line through T intersects the center line, B of the pattern, giving the point at the back of the elbow. Line through B intersects lines Ti T in pattern, giving points at throat of elbow. Line through O intersects line O-O of pattern, giving points midway between the back and throat. The other points are found between T-O-B. You can always obtain a square elbow by drawing lines through the points without using any mitre line whatever.

OCTAGON MITRE PATTERN.

The octagon mitre pattern is found by the operations already performed. Draw a line from the back of the octagon mitre pattern to the throat of the pattern, square from center of line between O and B to intersect the line drawn through B, center of pattern. That point is a center. Extend the point of the dividers to the point of the back of pattern. You can lay out the pattern for the center half. Place the point of dividers on line T to intersect the point at throat. Lay out one side of the throat part of elbow and lay out the other side the same way, completing the octagon mitre pattern without using a mitre line. In the square elbow pattern, the point where vertical line through C intersects center line B, is the center to lay out the octagon. You will find this distance three times the radius of the circle.

The square mitre elbow pattern can be laid out nearly true by taking the distance from O to T in the dividers and describe the curve from the back of pattern to points a-a on each side of center line; then take the same distance on lines T-T, describe the outside reverse curves at throat of elbow from a to T. Draw a straight line from a- in upper curve through point O to a- in lower curve. The distance taken in dividers is the diagonal of a quadrant of an inscribed square or the side of an inscribed square.

To lay out a square elbow quickly, mark the outstretch or half of it on a sheet of black iron with marking crayon. Draw a center line as B, two lines midway as O-O. Draw lines from throat to back passing through O-O. You have three accurate points on each side. Take the diagonal of the quadrant of an inscribed square marked in the circle of the base, or take the side of an inscribed square (which is the same thing) and describe the curves in the center and the two outside reverse curves. The pattern is approximate but close enough when only one elbow is to be made. An elbow pattern cannot be laid out accurately by any mechanical contrivance using only one center point.

ANOTHER KICK.

To the American Artisan:

I have been much interested in the various articles which have lately been published in regard to the quality of tin plate and am somewhat surprised that the same criticism is not applied to so-called galvanized iron (?) and black sheet iron (?).

I see that the manufacturers claim that they can furnish just as good as was made fifty years ago if we would pay the price. But I have bought plate that I was assured was the best ever—that no better ever was made or could be made at any price—*and I paid the price,* only to find that it was no better to wear than some that cost about one-half as much. So that I have about lost confidence in the whole output of sheet metals.

Neither do I understand why with all our improvements in methods and skill and intelligence in our mills, good material should cost so much as to make the use of it almost prohibitive. I cannot pay $18 or $20 per box for terne plate and put on a roof in competition with so-called three-ply gravel roof at $3.50 per square, and when I argue the superiority of the tin roof, am met with the statement that "tin roofs are no good any more, whatever they may have been in the past," and in the light of the roofer's experience for the last ten or fifteen years as shown in the trade journals (as well as my own experience), I can only stand mute.

I would also like to say here that in some twenty-five years at the tinners' trade, half of which as an employer, I have found my "brother tinks." average up pretty well with the rest of the community as regards intelligence, sobriety and morality.

As you can see I am better fitted to wield the snips than the pen, but feel as though I would like to do something towards improving conditions in the trade.

Yours for good material and good work,

"Another Kicker."

Port Huron, Mich.

PRONG LOCK WIRELESS FIRE PROOFING.

The development of modern construction, given continual impetus by the demand that building sites shall be out of commission as short a time as possible, has led to many improved methods which would make our

grandfathers gasp with astonishment. Everything is made in the shop, and by machinery, which can be so made, and the result is usually more satisfactory in point of utility and service than the method which it supersedes.

In this class may be placed the various systems of expanded metal used to take the place of the old-style wooden lath. The metal lath, or, more correctly speaking, the metal substitute for lath, can be put in place much more quickly and more securely than the wooden lath, but that is not the only advantage. Expanded metal is non-combustible and its use is another step towards making buildings completely fireproof.

As is natural in the development of a new industry such as this the various manufacturers are intent upon perfecting the best system, and improvements follow each other so fast that it is difficult to keep pace with them all.

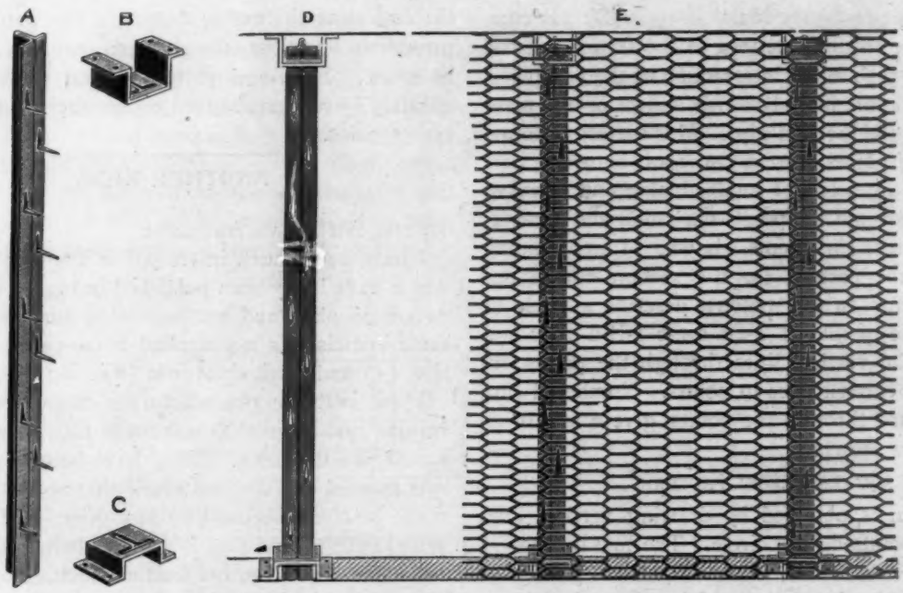
The Berger Manufacturing Company of Canton, Ohio, calls attention to a statement, which they say is misleading, though probably unintentional, and which appeared in the advertising space of a perfectly reputable fireproofing concern, to the effect that the latter make the only system in which the furring is not tied or wired. In answering this statement the Berger Manufacturing Co. say:

"The 'Prong Lock Wireless' system overcomes the objectionable features mentioned most effectually. It consists of a system of metal sockets (one style made with projecting prongs, the other with slots), which are fixed in place at the floor and ceiling. The steel studding is slipped either into the slots in one style of socket or between the prongs of the other as the case might be. The prongs are easily pressed back and clinch the studding in a rigid grip.

"The studs are provided at intervals of six or eight inches with projecting prongs punched out of the steel. The wire or metal lath is placed on the studding, the prongs projecting through the mesh. A pressure of the thumb or the tap of a hammer clinches them back and grips the lath firmly to the studding in a never-relaxing hold.

"The furring is also made with projecting prongs and either nailed to wood joists or attached to steel I beams by a simple system of clips. The ceiling lath is clasped to the furring by the prongs in the same way as to the studding. The ease of erecting this system makes it the most economical on the market, and as the prongs are absolutely immovable, it makes it the most rigid."

The illustration of the Prong Lock Wireless system shown above was loaned us by the Berger Manufacturing Company, Canton, Ohio, patentees and manufacturers of the system, who will gladly send you quotations and description if you mention THE AMERICAN ARTISAN.



Section Showing Method of Attachment to the Studding.

THE WASH BOILER.

It is the claim of P. Mosheik, 421 South Halsted street, Chicago, that he makes forty-eight kinds of wash boilers, the chief of which is a Number 10 boiler,

Number 10 Copper-Bottom Wash Boiler.

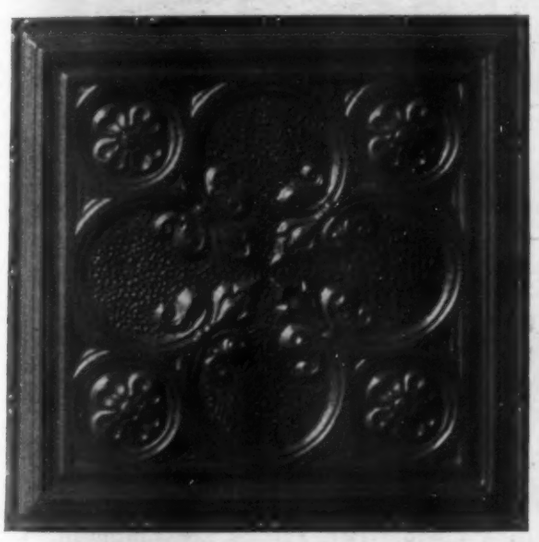
made by hand from the best IXXXX charcoal tin with a sixteen-ounce copper bottom and pieced cover. It has extra heavy one-piece stationary handles, which are strongly riveted to the boiler and the rivets soldered on the inside. The copper bottom of this

boiler weighs two pounds and the whole boiler weighs twelve pounds. The size is twenty-three and one-half inches long, twelve and one-fourth inches wide and fourteen inches high.

GOTHIC CEILING PLATE.

The accompanying illustration shows a Gothic ceiling plate, which is one of the many beautiful designs put upon the market by the Edwards Manufacturing Company, "The Sheet Metal Folks," whose new offices and factory are located at number 300 to 316 Eggleston avenue, Cincinnati, Ohio.

The architects of the Renaissance period first applied the term Gothic in derision, but it is now generally accepted as the name of that style of architecture which flourished in Western Europe from the middle of the twelfth to the end of the fourteenth centuries. The distinguishing characteristics of this style of architecture were everywhere the same, although it varied to some extent under local influences.



Ceiling Plate of Gothic Design.

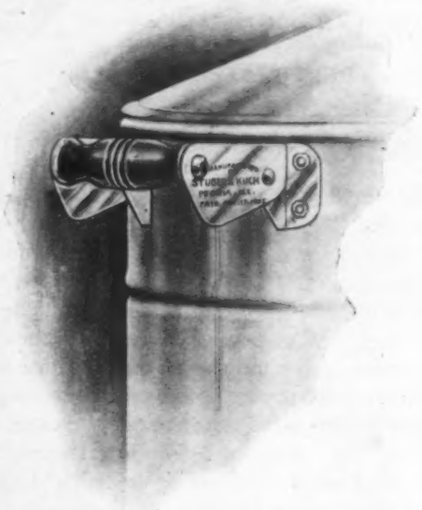
In Yorkshire, England, there was a steady progressive development which was uninfluenced by any classic tradition. There Gothic architecture reached a very marked character.

English Gothic architecture may be divided into three distinct periods: Early England, from 1175 to 1272; the Decorated, from 1272 to 1377, and the Perpendicular, from 1377 to 1483. It will be noted that these periods were about 100 years in extent. The difference in style is readily discernible, although the transitions from one style to the other are so gradual as to be almost unnoticeable unless one jumps for a considerable number of years in his comparisons. The early England style includes the transition from the Romanesque to the Gothic; the Decorated style is distinguished by wider arches divided by narrow mullions, and the Perpendicular becomes more and more complex.

We are advised that the Edwards Manufacturing Company have on the press at the present time a new catalogue of metal ceilings and side wall designs of the different periods mentioned, which they will be pleased to forward to dealers who are interested in the subject and who mention the fact that they had seen it noticed in THE AMERICAN ARTISAN.

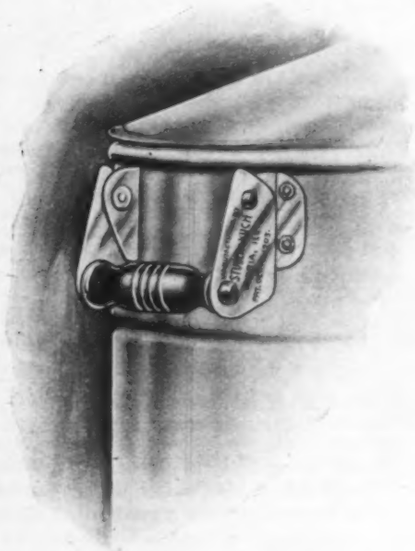
PATENT WASH BOILER HANDLE.

The time has come when the up-to-date manufacturer is constantly on the outlook for improvements of all kinds. To-day the dealer will make a sale to a cus-



The Handle Ready for Use.

tomer not any more on the strictly working qualities of the article in question than on the conveniences which that article may possess. Messrs. Stuber & Kuck, 400 to 420 North Water Street, Peoria, Illinois, realize this condition fully and, not satisfied with merely sending out a tin wash boiler, the excellence



The Handle Lowered.

of which is known to the trade, have added a new patented handle which is illustrated herewith.

This handle is made of number eighteen tinned steel, well riveted with tin washers all around and nicely enameled in black. The wood is so attached that when the handle is down, as illustrated, the wood remains about half an inch away from the boiler to keep it

from burning or getting hot, thus insuring a cold handle.

The other illustration shows the handle ready for use. It can go no higher than the horizontal, and becomes in that position absolutely stationary. The handle cannot go above the top of the boiler, which minimizes the danger of scalding.

You can receive full information concerning this specialty and the full line of products handled by this company if you will drop them a postal and at the same time mention THE AMERICAN ARTISAN.

PERFORATED METALS.

Having devoted their energies for many years to the production of perforated metals for a multitude of uses, the Harrington & King Perforating Company of Chicago and New York have accumulated a large variety of sizes and patterns suitable to almost any imaginable purpose. As illustrating the specialization reached in this branch of business, we call attention to their 14-page booklet dealing entirely with the question of perforated plates for use in sugar, coffee and rice machinery. This covers screens for centrifugal machines, filter press plates made of brass, copper, bronze, steel and iron, both black and galvanized, coffee screens, perforated steel conveyor lining and slotted metal in every variety of slot. In response to inquiries giving full information as to the use and requirements they will submit quotations, samples or blue prints showing the sizes and styles of perforations adapted for such service or deemed suitable for your purposes. Your request will receive prompt attention if you mention THE AMERICAN ARTISAN.

POOR DECKS—POOR ROOFS.

TO THE AMERICAN ARTISAN:

On first thought I had no intention of entering into the discussion of tin roofs at all. But, seeing I have, I will try and finish the job, even as I would a tin roof, in a workmanlike manner. The article that appeared in the issue of THE AMERICAN ARTISAN of the 28th inst. we will call the main roof. I will now proceed to put in the flashing and do the finishing.

In the first place I will call the attention of all who are interested in tin roofs, to the facts as I find them in my experience with tin roofs.

I find that no matter where you go in this country or what locality you are in, that nearly all of the roofs of to-day commence to rust from the under side. I mean by this, roofs that have proper pitch and are kept properly painted with a good, durable paint.

Now, comrades, follow me along as I go and I will try and show you the reason why the roofs do rust from the under side. To be fair in this matter and to impress upon the minds of the readers of THE AMERICAN ARTISAN, I will make this assertion: In all my experience as a tinner I have never yet been able to behold more than a very few decks that were properly boarded. And if any of you tinners ever have, I would like to hear from you right away, as old age is creeping upon us and we might pass away. This is no joke, but is a serious matter—for my heart sometimes aches and I have a tired feeling when I am asked to lay tin on some decks.

But that is not the limit—they want the tinner to do a first-class job.

Now I have arrived at the place where I am going to tell you about the boarding of decks.

In the first place, if it is not tight and there are cracks left in the boarding, it is not properly done. And these are some of the reasons: Sometimes a seam comes on a crack; it cannot be properly nailed or pounded down. It must therefore depend entirely upon solder, which is entirely wrong. In a short time the seams crack, water runs in under and the roof commences to rust from the under side.

Through those same openings in the boards comes the hot air; all the steam and foul air condenses and becomes as a sweat.

Along those openings on the tin you can find a streak of rust. Consequently your roof will rust from the under side. You cannot stop it by putting four carloads of paint on the top side.

I believe tin for a roof ought to be painted on the under side or else a layer of paper should be placed in under it. I often wonder how some men can expect a tin roof to be much when all those troubles that I have mentioned are overlooked. But I think I will sum it up like this: They are building about four-story high and their expectations are ten stories high; or, in other words, they are 22-caliber in a 44-frame.

So the genuine tinners of this country do not need as much cussing as they get. It's the would-be tinner, the would-be architect, the would-be know-all, also the cheap John, who want to reap 200 per cent on their investment.

I hope I have not done an injustice to anyone and to see a revival in tin roofs.

Wathena, Kas. "KICKER."

NOTES AND QUERIES.

AUTOMATIC DRIVE GATES.

From D. H. Chase, Willow Lake, South Dakota.

Can you inform me where I can buy automatic drive gates?

Ans.—American Steel & Wire Company, 162 Lake street, Chicago, and the Cyclone Woven Wire Fence Company, Waukegan, Illinois.

PEANUT ROASTERS.

From Messrs. Carpenter & Mather, Stanley, Wisconsin.

Please inform us who sells or who are the manufacturers of peanut roasters.

Ans.—C. Cretors & Company, 22d and Jefferson streets, Chicago; Mr. Thomas Lee, Cincinnati, Ohio, and Dunbar & Company, 16 North Desplaines street, Chicago.

MOLDERS' TOOLS.

From Joseph P. Francois, 1244 Main Street, Green Bay, Wisconsin.

Kindly inform me where I can get molders' tools.

Ans.—S. Obermayer & Company, 16th and Rockwell streets, Chicago.

TANK INDICATOR.

From Will S. Thomas, Iowa City, Iowa.

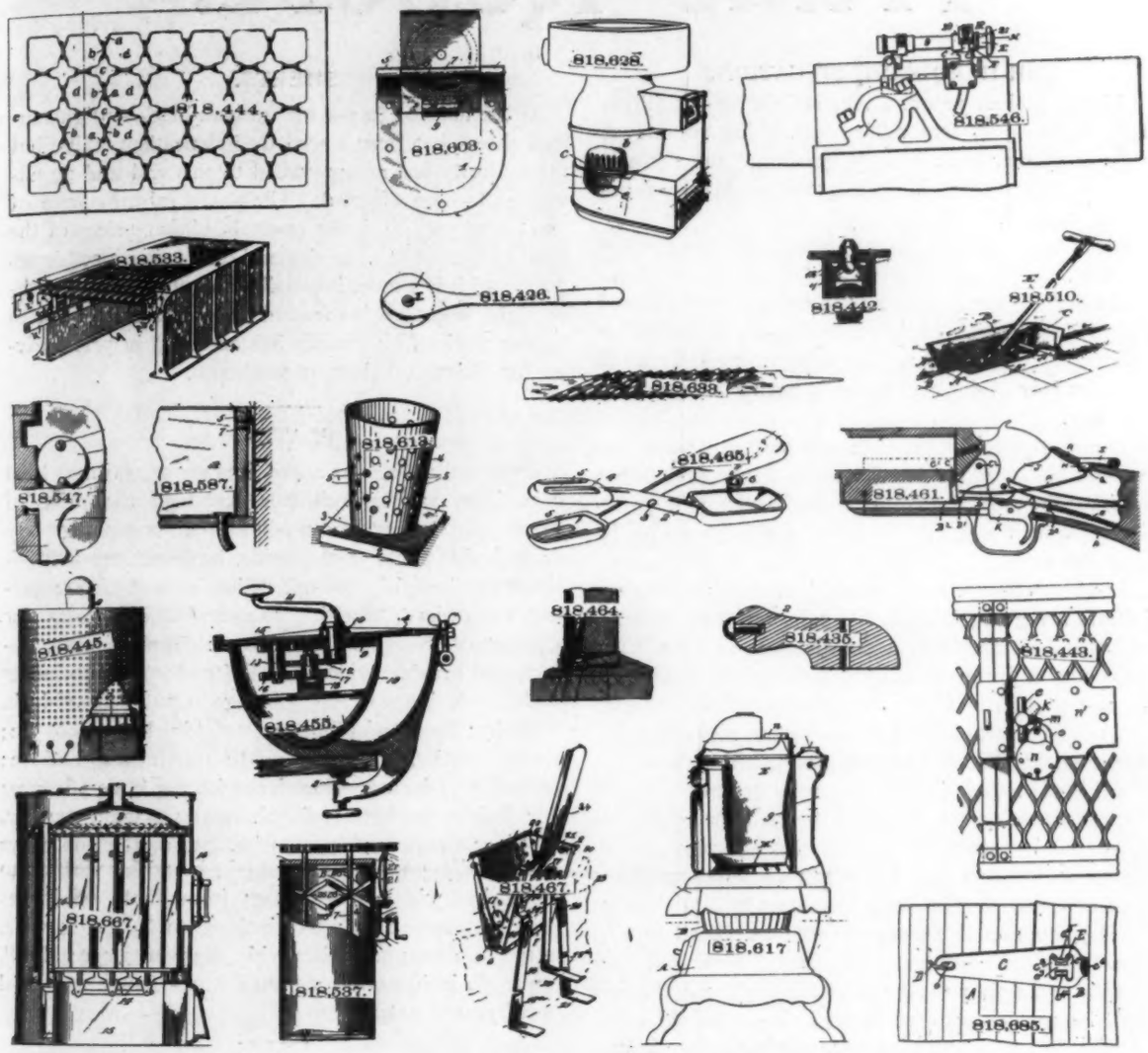
Where can I get a machine for measuring water or gasolene in an underground tank?

Ans.—Bowser Manufacturing Company, Ft. Wayne, Indiana.

THE WATER WAY BETWEEN DETROIT AND BUFFALO.

Particular and experienced travelers habitually use the daily express service via D. & B. Lake Line en route between eastern and western states. Low rates and superior service attracts this class of travel. You can save $3 by purchasing your through tickets via the D. & B. Line. Send two-cent stamp for illustrated pamphlet. Address Detroit & Buffalo Steamboat Co., 4 Wayne street, Detroit, Mich.

NEW PATENTS.



818,426—Noodle-cutter. William N. Foust, Summit township, Crawford county, Pa. Filed Sept. 9, 1904. Serial No. 223,940.

818,435—Door-check. Bert Gonyo, Trudean, N. Y. Filed April 8, 1905. Serial No. 254,614.

818,442—Caster. Otto Hoffmann, Chicago, Ill. Filed Dec. 11, 1905. Serial No. 291,287.

818,443—Locking Device. George Holden, Merchantville, N. J., assignor to Merritt & Co., a corporation of Pennsylvania. Filed Feb. 7, 1905. Serial No. 244,583.

818,444—Reticulated Sheet-metal structure. George Holden, Merchantville, N. J., assignor to Merritt & Co., a corporation of Pennsylvania. Filed May 19, 1905. Serial No. 261,099.

818,445—Berry-seed separator. Howard Holton, Amsterdam, N. Y. Filed June 28, 1905. Serial No. 267,412.

818,455—Culinary utensil. Frederick J. Larock, East Hartford, Conn. Filed July 28, 1905. Serial No. 271,619.

818,461—Breech-loading firearm. Oscar F. Mossberg, Fitchburg, Mass., assignor to Mary Elizabeth Johnson, Fitchburg, Mass., executrix of Iver Johnson, deceased. Filed Aug. 30, 1899. Serial No. 728,940.

818,464—Weather-strip for doors. Lewis A. Payton and Charles M. Powell, Ellendale, Okla., assignors of one-third to Ora E. Powell, Ellendale, Okla. Filed Aug. 17, 1905. Serial No. 274,510.

818,465—Forceps for handling boiled clothes. Lot W. Price, Whitten, Iowa. Filed Apr. 17, 1905. Serial No. 256,078.

818,467—Mop-wringer. Thomas J. Putnam, Peru, N. Y. Filed Mar. 29, 1905. Serial No. 252,725.

818,510—Lawn-edge trimmer and ditcher. James M. Aldrich, Adrian, Mich. Filed July 19, 1905. Serial No. 270,353.

818,533—Grate. John E. Frost, Watkins, N. Y., assignor to Elmira Heater Co., Elmira, N. Y. Filed Jan. 14, 1905. Serial No. 241,034.

818,537—Churn. Zeddie L. Harbin, Canton, N. C., assignor of one-half to George H. Smathers, Canton, N. C. Filed Oct. 2, 1905. Serial No. 281,034.

818,546—Telescopic sight for guns. John F. Meigs and Herman G. Jakobsson, South Bethlehem, Pa., assignors to The Bethlehem Steel Co., South Bethlehem, Pa., a corporation of Pennsylvania. Filed Oct. 26, 1903. Serial No. 178,625.

818,547—Sash holder and lock. Andrew J. McCord, Chattanooga, Tenn. Filed Mar. 27, 1905. Serial No. 252,301.

818,587—Hanger-support for tanks, basins, and the like. Frederick J. Veitch, New York, N. Y. Filed Nov. 7, 1903. Serial No. 180,211.

818,603—Door-hanger. William P. Benson, Sterling, Ill. Filed June 16, 1902. Serial No. 111,944.

818,613—Dish-dryer. Jennie Daly, Waverly, N. Y. Filed Aug. 26, 1905. Serial No. 275,978.

818,617—Heating-stove. Joseph W. Emery, Quincy, Ill. Filed July 10, 1905. Serial No. 269,107.

818,628—Stove and furnace. Henry E. Janes, New York, N. Y., assignor to Janes & Kirtland, New York, N. Y., a corporation of New York. Filed June 10, 1905. Serial No. 264,558.

818,633—Saw-file. Peter Lord, Worcester, Mass., assignor of one-half to William H. Inman, Worcester, Mass. Filed Mar. 11, 1905. Serial No. 249,548.

818,667—Hot-water heater. Carl M. Clausen, Elkhart, Ind. Filed June 22, 1905. Serial No. 266,449.

818,685—Hasp. James C. Griffin, Erie, Pa. Filed Oct. 17, 1904. Serial No. 228,855.

Trade Report.

THE HARDWARE SITUATION.

Chicago jobbers report a very satisfactory condition of business in all seasonable lines. The volume of trade in garden tools is very good and the demand for carpenter's tools is feeling the stimulus of the spring weather.

Prices are very firm but no substantial advances are reported.

The stove manufacturers are extremely well pleased with the situation. Most houses report a volume of business far ahead of a year ago, although in some localities fear of the coal strike is having a depressing tendency.

The shortage of wire cloth and poultry netting has reached an acute stage. Retailers were chary about ordering the normal quantity owing to the high quotations and their small stocks have been eaten up by the early demand.

In practically all lines in which trading is brisk the jobbers are going back to the mills for fresh supplies and this has complicated the situation a little. The mills are enjoying unexampled prosperity and have trouble enough in filling the demands of the ordinary course of business. Under the circumstances they find it extremely difficult to make prompt shipments.

All Pacific coast jobbers naturally are overwhelmed with business as the result of the San Francisco disaster. This unusual demand is also affecting the situation in the east and factories as a rule are giving preference to Pacific coast business.

The situation is especially acute in regard to window glass. Enormous quantities of both plate and double strength must be ready by fall for the new buildings which will rise on the ruins of the old. Production must practically cease during the summer months unless some unusual steps are taken to provide for this emergency.

Refrigerator factories report a large quota of orders and the advanced prices quoted by many of them are being firmly maintained. Linseed oil maintains a middle position at 40 to 41 cents for boiled in single barrel lots. The demand for better grades of Manilla rope is improving the condition of the market.

The recent advances on heavy hammers and steel squares are still an element of disturbance in the market as stocks in jobber's hands were bought at lower prices and can be sold at prices not justified by the ruling quotations.

BILLETS AND RODS.

The Youngstown mills will now begin turning out steel rails to full capacity, and the new 50 ton open hearth furnace of the Inland Steel Company is open. This increased activity will lessen the supply of steel billets. There are more than formerly were on the market during the week closing, and prices range from $34 to $35. Bessemer rods are easier, however, and independent mills are quoting $35 f. o. b. Chicago.

SHEETS.

An advance of $2 per ton on both black and galvanized sheets has been urged by independent mills, but the majority has not prevailed to this end and no advance has been effected. The sharp raise in price of sheet bars will no doubt result in higher prices of the finished products. The demand on all sheets continues good and it is almost impossible to get deliveries within eight weeks on black, and on galvanized in ten to twelve weeks. No change has occurred in prices given for Chicago delivery a week ago.

PLATES.

Expected orders for approximately 25,000 new steel cars from various railroads has kept the price of plates up. Orders now in will keep mills running sixty days double time. Some mills, however, are in position to make fairly prompt deliveries and are competing for orders offered. The newest quotations for Chicago delivery are as follows: Tank quality, ¼-inch and heavier, wider than 6¼ and up to 100 inches wide, inclusive, car lots, Chicago, 1.76½c; 3-16-inch, 1.86½c.; Nos. 7 and 8 gauge, 1.91½c; No. 9, 2.01½c; flange quality, in widths up to 100 inches, 1.86½c; base, for ¼-inch and heavier, with the same advances for lighter weights; sketch plates, tank quality, 1.86½c; flange quality, 1.96½c. Store prices on plates are as follows: Tank plate, ¼-inch and heavier, up to 72 inches wide, 2c to 2.10c; from 72 to 96 inches wide, 2.10c to 2.20c; 3-16-inch up to 60 inches wide, 2.10c to 2.20c; 72 inches wide, 2.35c to 2.45c; No. 8, up to 60 inches wide, 2.15c to 2.25c; flange and head quality, 25c extra.

TIN.

Tin continues to soar to record-breaking prices, as the result of the strong bulling influence in the English market, together with the small available immediate supply. However, domestic jobbers in tin plates will hold to the prices quoted a week ago, in spite of the additional advance in both London and New York markets.

OLD MATERIAL.

The Chicago and North-Western Railway has sent out a list offering 1,500 tons of material for sale, but quotations on all kinds of scrap are practically unchanged from those of a week ago. All kinds of steel and iron scrap are reported to be going well in the New York market and stove plate is being inquired for to a moderate degree. Western dealers are pleased to note that no change in the market results from the continued offerings of large western roads.

WIRE NAILS.

Stocks throughout the country are exceedingly light and the shipments are correspondingly heavy, probably heavier than ever before in the history of the trade.

Large contracts are calling heavily upon the supply and prices show no change. Quotations are: $2 in car lots to jobbers and $2.05 in car lots to retailers, with an advance of 5 cents for less than car lots from mills.

CUT NAILS.

The market is firm under a steady but not an unusual demand. The Cut Nail Association met last week and reaffirmed prevailing quotations as follows: Steel cut nails in car lots, $1.95; less than car lots, $2; iron cut nails, $2.05 in car lots; less than car lots, $2.10.

BARB WIRE.

The railroads are taking practically all the barb wire that is coming into the market, the demand for fencing on their new work being very insistent. Quotations are firmly maintained, as follows: To jobbers, Chicago, car lots, painted, $2.15; galvanized, $2.45. To retailers, car lots, painted, $2.20; galvanized, $2.50. Retailers, less than car lots, painted, $2.30; galvanized, $2.60. Staples, bright, in car lots to jobbers, $2.10; galvanized, $2.40; car lots to retailers, 10 cents extra, with an additional 5 cents for less than car lots.

IRON AND STEEL MARKET.

Heavy buying has at last materialized in the pig iron market, with a slight advance in price resulting. The alarm that the San Francisco disaster would disturb the steel market proved unfounded. The rebuilding is certain to be slow enough to make the burden light on the mills, which are now, of course, crowded with orders. The United States Steel Corporation, the Lackawanna Steel Company, and the Pennsylvania Steel Company have opened their books for orders for steel rails on the basis of $28.00 at the mill. The corporation has orders already booked for the whole last half of 1906, and is beginning to consider prices for 1907, and a raise in the price is suggested. But in spite of the extraordinary building preparations throughout the country, and unusual railroad construction, most authorities consider the price fair as it now stands. An independent steel mill near Chicago has just placed an order for 10,000 tons of basic for delivery in the third quarter. There has been a heavy demand for foundry pig iron during the week in review, the total of sales being 35,000 tons for the week. The strike on the Great Lakes is threatening to seriously affect the mills that are dependent upon a coal supply from these sources, and sudden and heavy buying in Northern iron has resulted. The present stocks are sufficient to meet the needs for sixty days, however.

The week closes with the below quotations for Chicago:

Lake Superior charcoal	$19.25 to 19.50
Northern Foundry No. 1	19.25 to 19.75
Northern Foundry No. 2	18.75 to 19.00
Northern Foundry No. 3	18.25 to 18.75
Northern Scotch Foundry	19.25 to 19.75
Ohio Strong Softeners No. 1	20.30
Ohio Strong Softeners No. 2	19.50
Southern Foundry No. 1	18.40 to 18.65
Southern Foundry No. 2	17.90 to 18.15
Southern Foundry No. 3	17.40 to 17.65
Southern Foundry No. 4	17.15 to 17.40
Southern No. 1 Soft	18.40 to 18.65
Southern No. 2 Soft	17.90 to 18.15
Southern Gray Forge	16.40 to 16.90
Southern Mottled	16.15 to 16.65
Southern Silveries (4 per cent to 6 per cent Silicon	18.40 to 18.90
Jackson Co. Silveries, 8 to 10 per cent Silicon	23.30 to 24.30
Alabama and Georgia Car Wheel	22.65
Malleable Bessemer	18.30 to 18.75
Basic Iron	18.40 to 18.85

Matthew Addy & Company will say in their weekly report:

The week just ended has seen no important change in the situation of the local pig iron market. Inquiry continues, and a rather satisfactory tonnage of actual orders has been placed. Buyers generally still seem to be inclined to delay covering their requirements for the last half of the year, although quite a number of big consumers have sent out "feelers" within the past few days and several bonafide deals of considerable size are pending. What activity there has been has appeared in spots, and the Chicago district has probably had more than its proportionate share. There, more than anywhere else, the big buyers seem to realize the proximity of the last half, and to appreciate that they must do something towards looking after their requirements. The demand for Basic continues, and a number of sales of malleable are reported.

The agricultural implement manufacturers who have been buying only for their immediate requirements are now beginning to take an interest in the situation, and inquiries from this direction are quite numerous. A distinct feature of the present situation is the absolute dearth of southern charcoal iron. Not for many years has the South been in as crippled a condition so far as this product is concerned. It seems impossible to secure sufficient charcoal to keep the furnaces going, and practically none of this metal is to be had to-day either for prompt or forward shipment. Current business is certainly of sufficient volume to maintain the present scale of prices. A feeling of satisfaction seems to exist both with the buyer and the consumer. Shipments are going out at a rate that leaves very little on the furnace yards.

The market for foundry coke is quiet, but a number of Southern furnaces are contracting for the last six months of this year on a sliding scale basis.

Rogers, Brown & Co. will say in their weekly report:

The market continues most satisfactory from the producers' standpoint, the only unfavorable feature being the strike of the longshoremen on the lakes. If the strike is of more than two weeks' duration, it will result in the shut-down of some independent furnaces now running on foundry and malleable iron for a number have about exhausted their ore supply and were depending on receiving some deliveries on opening of navigation to keep in operation. The supply of ore on docks of the lower lake ports is practically exhausted. If the strike remains unsettled even for a short period, it is likely to affect the price and delivery of Northern irons.

Sales of all grades continue in satisfactory volume, and inquiry for a considerable tonnage is pending, particularly for malleable and basic. One large consumer is now in the market for their June requirements of foundry iron, but most inquiries and sales are for delivery extending throughout the third quarter. Bessemer and basic for nearby shipment are scarce. Prices are firm and some Northern furnaces refuse to accept further orders at the close price at which they made some recent sales.

There is no let up in the exceedingly heavy consumption, which is keeping pace with production.

Foundry coke is quiet, but there is a good demand for furnace coke from the Connellsville District and good figures are being realized for this grade.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRICK PLATES.

		Per Box
IC	14x14	$10 50
IC	14x20	7 15
IX	14x20	8 40
IXX	14x20	9 60
IXXX	14x20	11 85
IXXXX	14x20	13 10
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	75
Cokes 216 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$20 50@$21 00
North'n Coke Fdy., No. 1	19 75@ 20 00
North'n Coke Fdy., No. 2	19 25@ 19 50
North'n Coke Fdy., No. 3	18 75@ 19 00
Northern Scotch, No. 1	20 00@ 20 50
Ohio Strong Softeners, No. 1	20 30@ 20 80
Ohio Strong Softeners, No. 2	19 80@ 20 30
Southern Silvery, 4 to 6 per cent Silicon	19 15@ 19 40
Southern Coke, No. 1	18 40@ 18 65
Southern Coke, No. 2	17 90@ 18 15
Southern Coke, No. 3	17 40@ 17 90
Southern Coke, No. 4	17 15@ 17 40
Southern Coke, No. 1, Soft	18 40@ 65 18
Southern Coke, o. [illegible] Soft	17 90@ 18 15
Southern Gray Forge	16 40@ 16 65
Southern Mottled and White	16 15@ 16 40
Malleable Bessemer	20 00
Jackson Co. & Ky. Silvery 8% Silicon	22 30
Jackson Co. & Ky. Silvery 10% Silicon	23 30@ 24 30
Alabama Basic	18 65@ 18 90

BLACK SHEET STEEL.

No. 16 per 100 lbs.	$2 55
No. 18-20 per 100 lbs.	2 60
No. 23-24 per 100 lbs.	2 65
No. 25-26 per 100 lbs.	2 70
No. 27 per 100 lbs.	2 75
No. 28 per 100 lbs.	2 85
No. 29 per 100 lbs.	3 05

POLISHED SHEET STEEL.

No. 24 per 100 lbs.	$4 60
No. 26 per 100 lbs.	4 70
No. 27 per 100 lbs.	4 80
No. 28 per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth, No. 20	$2 90
" " No. 22-24	2 95
" " No. 25-26	3 00
" " No. 27	3 05
" " No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel "A" $10 20, "B"	$9 20
Dickey Planished Sheet Steel	6½c

GALVANIZED IRON.

Regular Sizes.

No. 16, per 100 lbs.	$3 20
Nos. 18 & 20, per 100 lbs	3 35
Nos. 22 & 24, per 100 lbs	3 50
No. 26, per 100 lbs	3 70
No. 27, per 100 lbs	3 90
No. 28, per 100 lbs	4 10
No. 30, per 100 lbs	5 00
Nos. 22 & 24 x 36 in., per 100 lbs	3 70
No. 26 x 36 in., per 100 lbs	3 90
No. 27 x 36 in., per 100 lbs	4 10
No. 28 x 36 in., per 100 lbs	4 30

SOLDER.

XXX Guaranteed ½ & ½ per lb.	20½c
Commercial ½ & ½ per lb.	19c
No. 1 Plumbers	17½c

SHEET ZINC.

600 lb. Casks case, per cwt.	6 90
600 lb. Casks per cwt.	7 95
Sheets per cwt.	7 70

COPPER.

Copper base,	21c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits, pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c

Sheet.

Full coils per 100 lbs.	$7 00
Cut coils per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.

Triumph	40&10%
Cutmore	50&5%

Coopers'.

Barton's	20%
White's	15%

Railroad.

Triumph	40&5%
Cutmore	50%

Ship.

Triumph	33⅓&5%
Cutmore	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L. Waterproof, 1-10s	40c
G. D.	35c
Musket	60c

Cartridges.

Winchester Rim Fire Ctgs	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent fire, Military and Sporting Ctgs	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%

Primers.

Berdan Primers	$1 00
Winchester Primers	20%

Shells.

New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%

Gun Wads—per 1,000.

Winchester Gun Wads	15%

Powder.

	Each
DuPont's Sporting, kegs'	$4 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs	11 35
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs	2 97
" " 1-lb. cans	51

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 70
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 95
Buck Shot, 25-lb. bags, per bag	1 95
Chilled Shot, 25-lb. bags, "	1 95

ANCHORS.

Expansion Screw Anchors	10%

ANVILS.

Trenton, 70 to 80 lbs.	9½c per lb
Trenton, 81 to 150 lbs.	9½c per lb

ASBESTOS.

Board and Paper	33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%

Hollow.

Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00

Post Hole.

Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25

Rafting.

Snell's	50&5%

Ship.

Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.

No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	1 20
Patent asst'd, 1 to 4 "	1 20

Harness.

Common "	1 20
Patent "	90

Peg.

Shouldered per gro,	$1 20
Patent "	60

Scratch.

No. 1, handled "	4 80
No. 15, socket handled. per doz.	1 25
No. 7 Stanley "	1 80

Sewing.

Common per gro.	90
Patent "	90

AXES.

Boy's Handled.

Lippincott, 3 lb per doz.	$6 50
Cutmore "	6 75

Broad.

Triumph, West, Pat	40-10&5%
Triumph, Can. Pat	50&10%
Firemen's (handled) per doz	$13 00
Miners' (handled) "	6 50

Single Bitted (handled).

Silver Eagle, 3 to 4 lbs., pr dz.	$10 50
Cutmore " " "	8 75
Keystone " " "	9 25
Forest Clipper " " "	8 50
Premier " " "	6 75
Crescent " " "	5 75

Single Bitted (without handles).

Cutmore, per doz. 3 to 4 lbs.	$6 75
Forest Clipper, " "	6 50
Keystone, " "	7 25
Perfect " "	6 75
Premier " "	5 00
Silver Eagle " "	8 25

Double Bitted (without handles).

Cutmore, 3 to 4 lbs. per doz.	$8 75
Silver Eagle, " "	10 25
Keystone " "	9 50

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$3.00	4.50	5.50	6.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point cwt.	$3 25

BASKETS.

Clothes.

Small Willow per doz.	$5 75
Medium " "	6 50
Large " "	7 25
Galvanized Iron. ½ bu. 1 bu. 1½ bu	
Per doz. $4 00 5 50 7 00	

BEATERS.

Carpet.	Per doz.
No. 11 Coppered Spring Wire	$1 00
No. 12 Tinned Spring Wire	80
No. 10 Woven Wire	1 10
Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 50
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%

Hand.

8 inch per doz.	$8 00
10 inch "	10 00

Moulders'.

12 inch "	13 00

BELLS.

Call.

3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00

Cow.

High Grade	60&10%
Kentucky	70%

Door. Per doz.

New Departure Automatic Rotary.	$6 00
3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell.	5 00

Hand.

Hand Bells, polished	50@50&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%

Miscellaneous.

Church and School, steel alloy	50&10%

Farm, lbs.	40	50	75	100
Each	$1.10	1.40	2.00	2.75

BEVELS, TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	75&10%
Brass	70%
Brass Plated	75&10%

BITS.

Auger.

Extra Double Spur	70&10%
Snell's Car and Machine	50&10%
Triumph	50&5%
Snell's Ship	40&5%
Irwin	50&5%
Russell Jenning's	25&10%
Clark's Expansive	60%
Steer's " Small list, $22.00	30%
" " Large " $26.00	30%
Irwin Car	45%
Snell's Ship Auger pattern Car	40&5%
Center	10&10%

Countersink.

No. 18 Wheeler's	per doz.	$1 25
No. 20 "	"	1 75
American Snail head.	"	75
" Rose	"	90
" Flat	"	75
Mayhew's Flat	"	1 25
" Snail	"	1 25

Dowel.

New Jennings	40&10%

Gimlet.

Standard Double Cut		60%
German Pattern	per doz.	$0 60
German	"	65
Gouge	"	80
Spoon	"	80
Countersink	"	1 00

Reamer.

Jenning's Square	"	2 50
Standard Square	"	75
German Octagon	"	75

Screw Driver.

No. 7 Common	"	50
No. 1 Triumph	"	1 25
No. 2 "	"	1 50
No. 340 Shepardson's	"	1 25
No. 1 Smith's	"	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ⅞ & 1¼ in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each $1 50

Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Cutmore.....33⅓%

Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....55&10%
Steel.....40&10%

Tackle.
Iron Strapped.....70&10%
Hartz Steel.....40&10%

BOARDS.

Stove.....40%

Wash.
Globe, single.....per doz. $2 25
" double..... " 2 75
Magnolia..... " 2 65
Crystal Glass..... " 3 40
Brass King..... " 3 40
Nickel Plate..... " 3 40
Enamel King..... " 3 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅜x6 and sizes smaller and shorter.....75&5%
Carriage, sizes larger and longer than ⅜x6.....65&10&5%
Machine, ⅜x4 and sizes smaller and shorter.....75&5%
Machine, sizes larger and longer than ⅜x12.....65&10&5%
Machine, longer and larger than ⅜x12.....65&10%
Elevator.....50-10&5%
Plow.....60&10%
Stove.....80&10%
Tire.....75&10%
Wagon Box Strap.....70&10%

Mortise Door.
Gem, iron.....60%
" bronze plated.....20%

Barrel.
Cast.....60%
Wrought.....75%
" Bronzed.....50%

Flush.
Wrought.....50&10%

Spring.
Wrought.....70%
" Heavy.....70%

Square.
Cast.....50&10%
Wrought.....75%

BORERS.

Angular.
Miller's Falls.....per doz. $13 75

Bung.
Enterprise Mfg. Co.'s No. 1.....Each. $1 10
" " " No. 2..... 1 40

BOXES.

Mail, No....	1	2	10
Per doz.....	$3.25	4.25	17.50

Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each $1 25

BRACES.

Barber's.....50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108.....$3 50
" No. 0110..... 3 75
" No. 08..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $0 60
" No. 2 " 10 20

Shelf.
Cast Iron, Bronzed.....50, 10, 5%
Griffin Wrought Steel.....75&10%
" Folding.....70&10%

BROILERS.

Wire.....70&10%
Crown, Self Basting, No. 80. doz. $2 50

BUCKETS.

Pump Rubber.
Wychoff.....per gr. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75

Well.

Galv'd Qts.....	10	12	14
Per doz.....	$2.90	$3.25	$3.40

Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....35-10&5%
Tinners' Iron Burrs only.....70%

BUTTS.

Cast Iron.....65-10&5%
Wrought Brass.....15%

Wrought Steel Bright.
Griffin.....75&10%
" Ball Tip.....75-10-10&10%
" " Bronzed.....70%

Wrought Steel, Japanned.
Nos. 731 and 733.....70-10-10&10%

CALIPERS.

Double.....78%
Inside and Outside.....70&10%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M.....$3 75

Toe.
Shoenberger.....per ℔ 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.

Gallons.....	20	30	40
Each.....	$3.85	$4.50	$5.65

Milk.
Holstein.

Nos.....	300	301	302
Gals.....	5	8	10
Per doz.....	$20.00	$21.00	$23.00

Chicago Pattern.

Nos.....	105	108	110
Per doz....	$15.00	$16.50	$18.50

Iowa Pattern.

Nos.....	408	410
Per doz.....	$19.00	$20.50

New Elgin Pattern.

Nos.....	705	708	710
Per doz.....	$19.00	$20.50	$22.00

Burn Pattern.

Nos.....	700	701
Gals.....	8	10
Price.....	$1.75	$2.00

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each $3 50
Diamond, Sling..... " 6 50
Myers' Imperial..... " 3 50
" Clover Leaf..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%

Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll s No. C.....per doz. $4.25

Wildermuth's

Nos.....	1	2	3
Per doz.....	$5.60	$5.75	$6.25
Nos.....	4	5	6
Per doz.....	$6.75	$9.50	$10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs $5 75
With Covert snaps. " 5 00
With slide..... " 3 25
Without slide..... " 2 85

Bright Ox Chains.
$\frac{5}{16}$ in. $7.25; ⅜ in. $5.45 per 100 lbs

Cable Coil Chain.

Inch.....	$\frac{5}{16}$	⅜	$\frac{7}{16}$	½
Per 100 lbs..	$5.80	$7.00	$6.00	$5.20
Inch.....	$\frac{7}{16}$	½	⅝	¾
Per 100 lbs..	$5.00	$4.90	$4.75	$4.65
Inch.....	⅞	1	1¼	
Per 100 lbs..	$4.55	$4.55	$4.65	

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil

Cow Tie Chains.
American 2 toggle.....50&5%
" toggle and snap...50&5%
" open & closed ring, 50&5%

Halter Chains.
American, new list.....33⅓&5%
German.....60&10%
Niagara, new list.....40&5
Brown's, " .....40&5%

Picture Chains.
Light Brass, 3 ft.....per doz. 50c
Heavy Brass, 3 ft..... " 75c

Pump Chain.
Galvanized, per 100 lbs.....$5.00

Safety Chain.
Brass.....60&10%

Special Steel Loading Chain.

Inch.....	½	$\frac{9}{16}$	$\frac{5}{8}$
Per 100 lbs...	$16.00	$13.50	$12.50

Stretcher Chains.
$\frac{5}{16}$ in. $8.50; ⅜ in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's.....70&10%

Trace Chains.
Western Standard.
6½—6-2.....per pair 30c
6½—8-2..... " 34c
6½—8-3..... " 33c
6½—10-2..... " 38c
7 —8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.

Inch.....	½	$\frac{9}{16}$	⅝
Per 100 lbs...	$6.50	$6.00	$5.50

CHALK, CARPENTERS'.

Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l Crayon..... " 5½c

CHARCOAL

In barrels.....per bu. 22c

CHECKS, DOOR.

Blount.....30%
Sargent's.....30%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box,

Inches.....	10	12	14
Round, per doz.	$2.10	$2.25	$2.75
Flat "	2.85	3.60	4.20

Cold.
Good quality.....per ℔ 10@19c

Socket, Framing and Firmer.
Barton's.....30%
Peck, Stow & Wilcox Co.....70%
For beveled back, add per doz. .60c

Tanged, Firmer.
With handles.....30&5%

Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood, Gal..	5	7	10
Each.....	$3.90	$4.15	$4.40

Belle, Barrel.....70%

Common Dash, Gal..	4	5	6
Per doz.....	$7.75	$8.50	$10.50

Hero.....70%

Union, Gal.....	5	7	10
Each.....	$3.65	$3.90	$4.75

CLAMPS.

Adjustable.
Martin's.....30%

Carpenters'
Steel Bar.....25%

Hose.
Sherman's, brass, ¾ in., per doz. .33c
Double, brass, ¾ in., " 65c

Saw Filers.
Disston's list, $30.00.....30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1 $6.00; No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle.....per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel..... " 1.00
Giant..... " .60

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%

Pot.
Wire.....per doz. $0.55

Side-walk.
Steel.....per doz. $3.25
XLCR.....65&5%

CLEAVERS.

Family.

Griffin, In.....	6	7	8
Per doz.....	$5.50	$5.75	$6.25

Royal.....per doz. 2 25

Butchers.
Beattys, Kitchen.....40%

CLEVISES.

Malleable.....per ℔ 4½c

CLIPPERS.

Bolt.....$1.90@$4.75

CLIPS.

Axle.....65&5%

Damper.
Standard.....per doz. 65c
Troy..... " 38c

Hame..... " 17c

CLOTH.

Emery.
Triumph.....50&10%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft..$1 85
9 to 12 " " " " 2 15
2 to 8 " galv. " " 3 00
7 and 8 " " " " 4 50

Screen Wire.
12 mesh, painted, per 100 sq. ft..$1 25
14 " " " " 1 85

COCKS AND FAUCETS.

Compression Plain Bibbs...60-10-2½%
Lever Bibb Cocks.....60&10&5%
Compression Hose Bibbs.....60-10%
Telegraph Faucets (new list)...50-5%
Racking Cocks (new list).....60&20%
Compression Lock C'ks(n'w list)..70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0.85
Milk Can Faucets, per doz...$2.60-4.20
Petroleum Faucets (new list) 70&10%

COLLARS, STOVE PIPE.

Inches.....	5	6	7
Plain Tin....per gro.	$1.60	$2.00	$3.00
Japanned Tin "	3.00	3.00	4.25
Lacquered Brass "	2.40	2.60	3.60

COMBS, CURRY.

Nos....	000	11	15	39	80	108
Per doz.	$0.32	.55	1.85	.85	1.10	.75
Nos....	299	320	390	532	620	1400
Per doz.	$1.00	.80	1.30	1.15	.70	1.35

COMPASSES.

Carpenters'.....70%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔.....per ℔ 32c
1½ ℔.....29c 2 ℔.... " 28c
3 ℔ and larger..... " 26c

CORD.

Picture.
White Wire.....80-10&5%

Sash.
Baltic Braided Flax.....per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c
Keystone.....8-32 in. " 26c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&10%

COUPLINGS, HOSE.

Brass.....per doz. $1.00
Brass Plated..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine...per doz. $22.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point per 100 lbs. $3.25

CUTTERS.

Glass
Red Devil ..... 45¢
Smith & Hemenway Co. ..... [illegible]
Woodward ..... [illegible]
Meat.
Enterprise Nos. 5. 10. 12. 22. 32 and 42 ..... 25¢
No. 202, list, $1.50 ea. ..... 40&7½¢
Universal... Nos. 1 2 3
Per doz. $10.50 $12.50 $17.00
Pipe.
Stanwoods...No. 1 2 3
Each $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10¢
American ..... 45&10¢

DIES, STOCKS AND

Discount ..... 40&5¢
King's, Little Giant ..... 33⅓¢

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 25
Eagle ..... " 5 75
Eureka ..... " 6 25
Hercules ..... " 9 75
Iwan's Split Handle.. " 7 00
Iwan's Perfection..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 98
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60¢&65&5¢
Blacksmith's Twist ..... 60¢
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz..$7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell ..... per doz. $16 50
Bit Stock.
Standard List... 60&5¢@60¢@10¢

DRIVERS, SCREW.

Hurwood ..... 40-10&10¢
Standard ..... 65&.0¢
Triumph ..... 70&5¢
Champion ..... 45¢
" Pattern ..... 60, 10&5¢
Clark's Interchangeable ..... 30¢
Edison ..... 60¢
Reed's Lightning ..... 45&5¢
Goodell's Spiral ..... 50. 10. 5&2½¢
Yankee Ratchet ..... 50¢
" " Spiral ..... 50&10¢
Smith & Hemenway Co ..... 40&5¢

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80&2½¢
Central ..... 75&10&7½¢
Southern ..... 75&10
Western ..... 75&10
S. Western ..... 75&2½
Terms, 2¢ for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount ..... 60&10¢
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth, per doz. $0.40 $0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .20 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 80
Peerless 1 50
Keystone 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5¢
Hooks and—
Brass ..... 55¢
Iron ..... 65&5¢

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10¢
Disston's ..... 75&10¢
Challenge ..... 70&10¢
Royal ..... 80&10¢

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed ..... 60¢
Hay,
Batcheller, 2 tine ..... 60&10¢
" 3 " ..... 70¢
" 4 " ..... 70&7½¢
Digging ..... 70&10¢
Scoop ..... 40¢
Header.
Batcheller, 3 tine ..... 66⅔&5¢
" 4 " ..... 65&10¢
Manure.
Batcheller, 4 tine ..... 70&5¢
Ore ..... 40¢
Spading.
Batcheller ..... 80&10¢

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform...each $19 10
25 qts, " " " 22 60
25 qt., Simpson Power. " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 20&10¢
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. ..... 50&10¢
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's ..... 25¢

GIMLETS.

Discount ..... 35@40¢

GLASS, WINDOW.

First two brackets ..... 90&20¢
Above " " ..... 90&10¢

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5¢

GLUE.

Bulk.
B Amber ..... per lb. 11 c
A White ..... " 13½c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy ..... 40¢
Le Page's—
List "A" ..... 37½¢
List "B" ..... 33⅓¢
List "C" ..... 25¢

GOODS.

Bright Wire ..... 90&10¢

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chemellene Graphite.
1 lb. per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone ..... 40&10¢

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing.. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top .... " 47
" leather top... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie.... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's ..... 40&10¢
Engineers'.
Maydole's ..... 40&10¢
Farriers'.
Maydole's ..... 35&5¢
Machinists'.
Maydole's ..... 40&10¢
Nail.
Triumph ..... 40¢
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5¢
Riveting.
Maydole's ..... 35&5¢
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs ..... 80¢
5 lbs. and over ..... 80&10¢
Masons'.
Single & Double Face ..... 75¢

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " .... per set 1 35
Axe ..... 60¢
Chisel.
Hickory, Tanged Firmer, Assorted, 25c; Large, 27c per doz.
Hickory, Socket Firmer, Assorted 18c; Large, 22c per doz.
Applewood, Tanged Firmer, Assorted, 20c; large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz. 24c
Coal Pick ..... 50&10¢
Drifting Pick ..... 50&10¢
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 40&10¢
Hoe and Rake ..... 40&10¢
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade ..... 40¢

HANGERS.

Barn Door.
Challenge ..... 60&10¢
Peerless ..... 70&10¢
Silver Star ..... 60&5¢
Storm King ..... 60@5¢
World's Best ..... 50¢
Wagner's Adjustable ..... 70&10¢
Warehouse ..... 60¢
Griffin ..... 70&10¢
Conductor Pipe.
Griffin ..... 70&10¢
Iwan's Perfection ..... 50¢
Eave Trough.
Baker's ..... per gro. $2 35
Imperial ..... 20¢
Wire ..... 35¢
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5¢

HASPS.

Hinge, Wrought ..... 50&5¢
With Staples—See Staples.

HATCHETS.

Challenge ..... 40¢
Blood's ..... 50¢
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling.... " $0 95@1 20
Germantown ..... 40¢
Plumb's ..... 40¢
Underhill's Star Lath ..... 40&10¢

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.... per doz. $ 9 60
No. 2.... " 10 20

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's ..... 65¢
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Ltch ....doz. $2.35 2.60 3.65
Hinges only .... " 1.70 1.90
Latches only... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American ..... 20¢
Bommer Bros Ball B'g Floor..35¢
Bommer Bros. Spring Hinges..40¢
Chicago ..... 25&5¢
Columbia Dbl Acting....40&10&5¢
Gem ..... 25¢
Ideal Detachable.... per gro. $11.10
Matchless ..... 30¢
New Idea ..... per gro. $8.40
Oxford ..... 20¢
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5¢
Heavy Strap Hinges ..... 75&10¢
Light T Hinges ..... 60&10&7½¢
Heavy T Hinges ..... 55&10¢
Extra Heavy T Hinges.... 70-10&5¢
Cor. Heavy Strap ..... 75&10¢
Cor. Ex. Heavy T ..... 70&10&5¢
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
¾ in ..... per 100 lbs. $6 55
⅝ in ..... " " 7 60
½ in ..... " " 9 45

HOES.

Garden ..... 75&5¢
Grub.
Extra ..... 70¢
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10¢
Mortar ..... 80¢
Planter's Eye ..... 62½¢
Weed ..... 75&15¢

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5¢
Iron ..... 65&10¢
Awning ..... per gro. $1 80
Bell.
Brown's ..... 70&5¢
Jones' ..... 65&5¢
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz..... $1.35 1.65 1.75 2.30
Hutmason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle, per doz. $7 00
Chain.
Incl... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.60-8.10 9.75 11.50 12 60
Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c
Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....50&10%@50&10&5%
Wrought .....40&10%@50%
Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz $1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00
Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c
Lambrequin, or Drapery, per gro. 21c
Picture .....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&20%
(See Goods, Bright Wire.)
Seat Spring.....per lb. 5½c

HOOPS, TUB.

Ever Ready .....per case $1 70

HOSE, GARDEN.

3 ply ¾ in. 35 lb. pressure per ft....4½c
3 " ¾ " 50 " " " 6½c
3 " ¾ " 70 " " " 6½c
3 " ¾ " 70 " " " ....8 c
4 " ¾ " 80 " " " ....8 c
4 " ¾ " 80 " " " ... 9½c
6 " ¾ " 125 " " " ...10½c
8 " ¾ " 150 " " " 12c
Cotton ¾ in. 75 lb. pressure per ft. 6c
" ¾ " 150 " " " 8c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's
Nos..... 1 63 200 400
Per doz.... .... $0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos.....A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 70
Plane.
Wood Bench.....20&5%
Stanley R. & L. Co. (new list)...25%
Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 lb. 3 25
" Nickel plated, " 4 25
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's.
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 74c
No. 55, " ..... " 71c
Tailors' Sad.....per lb. 4½c
" Geese ..... " 4½c
Tuyere.
Single Duck Nest.....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 60

JACKS.

Locomotive.....75&5%
Wagon.
Oliver.
Nos..... 0 00
Each..... $0.60 $0.85

Standard.
Nos..... 1 2
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each.....$0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron 45%
Copper.....per lb. 27c
Maslin 66⅔%
Sugar .....50&5%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard 70%
Adjustable.....15%
Barton's Carpenters'.....10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50
Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 1 Blade..... " 1 00
" 6 Blade..... " 2 00
Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75
Scraping.
Beech Handle.....75@1 00
Lander's.....5 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 73
Porcelain ..... " 83
Jet..... " 83

LADDERS.

Common Long.
Per ft .....9c@14c
Extension.
Per ft 12c
Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone..... ....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Prisco..... .....40&10&5%

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....40&10%
Siaes.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.

Valve and Plunger 45%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c
Clothes.
60-ft. Jute.....per doz. $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright.... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20
Washing.
Boss 1 2 5
Per doz.....$55.20 61.80 68.40
Winner..... .....per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 6 75
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40
Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid.....50, 10&5%
Queen Flexible.....50%
Stove.
Standard Quality...per gross $2 90
Best " (Pure) " 4 00
Wire Covered Asbestos, Ex. Heavy .....per doz. 1 00

MATTOCKS.

Warwood 70%
Extra 60%

MAULS.

Iron. lbs. 10 13 16 18 21
Per doz. $3.00 3.60 4.50 5.00 5.75
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat.. 80&5%

MEASURES.

	½ pk.	1 pk.	½ bu
Galvanized, per dz.	$2.00	$2.75	$3.60
Japanned... "	1.50	2.20	2.90

METAL.

Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.

First Quality.....25%
Second Quality.....35%

MILLS, COFFEE.

Enterprise 25%
Parker.....50%
Arcade 50%

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00
Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.35 2.50
Clipper .....50, 10&10%
Yale.
Inches..... 14 16 18 20
Each.....$3.50 3.75 4.00 4.35
Philadelphia.
All Styles Except A & E 60, 10&10%
Style A.....50&10%
Style E, High Wheel..60,10,10&10%
Drevels.....50%
All Day.....Net Price

NAILS.

Cut Steel.....rates, $2 10
Horse Shoe.
Ausable .....55&5%
Capewell 15%
Perfect .....55&5%
Putmam 20-5%
Star 30%
Picture.
Brass Heads .....40&10%
Judd's.....60&10%

Brads.....85&10%
Furniture .....60&10%
Wire.
Small Lots.....$2 10
Carload " 2 05
Cement Coated..... 1 95

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g.80&10&5%
" After Weaving...80&10%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co...60%
Hoof.
Heller's .....40&10%
V. & B.....55-5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 15
Mystic..... " 2 85

NUTS, HOT PRESSED.

Square Blank.
In. ½ 7/16 ⅝ 9/16 ¾ ⅞ 1 1⅛
lb. 9c 7½c 6c 5½c 4¾c 4½c 4½c
Square Tapped.
In. ½ 7/16 ⅝ 9/16 ¾ ⅞ 1 1⅛
lb. 12c 10c 7½c 6¾c 6½c 5¾c 5½c
For 5 lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....50%
Zinc 60%
Engineers'
Cannon 55%
Tin.....per doz. $2.00@$2.25
Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5%
Jappaned..... .....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat...per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico.....per doz. $1 30
Never Slip..... " 0 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Home.....per doz. $11 50
Economy..... " 4 90
Fireside..... " 10 50

PADLOCKS.

Standard Wrought .....70, 10&5%
Champion 50%
Eureka.....40, 10&5%
Yale .....60&5%

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50
Sap.
10-qt., Galvanized.....per doz. 1 60
12-qt., " ..... " 1 85
Stock
Galvd. qts. 14 16 18 20
Per doz.....$3.50 3.75 4.50 5.00
Water.
Galvanized, qts 10 12 14
Per doz $1 50 1.70 1.95
Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5%
Fry.
Common.....75&10%
Acme .....70&10%
Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz.. $4 75 $5.75 $6 50 $7.50
Neverburn.. 4.00 4.50 5.50 6.50
Savory No. 200 .....per doz 8.50

PAPER.

Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin .....pr roll 40
No. 30, Red Rosin ..... " 55
Sand and Emery.
Challenge.....50&10%
B. & A.....50%
Wrapping
Drab Fiber.....per lb. 3½c
Rag..... " 2½c

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading ..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....65&5%
Drifting and Poll Picks.....70%
Extra Railroad .....70&5%
Surface.....65&5%

PINCERS.

Carpenters', cast steel.
In..... 6 8 10 12
Per doz...$1 80 $2 40 $2 80 $3 50
Blacksmith's 45%
Heller's 40%

PINS.

Clothes.
Common.....per gro. $0 14
Hoyt's..... " 31
U. S..... " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....70&10%
Central.....70&2½%
Southern.....65&10%
Western.....65&10%
Southwestern.....60&10%

Lead.
Full coils.....per ℔. 7½c
Cut " ..... " 7½c

Stove.
Acme—In. 5 6 7
Smooth, per jt.. 8½c 9½c 10½c
Planished " .. 32 c 33 c 43c
Peerless—Smooth. 7½c 8 c 9½c
Polished 14½c 15½c 18c
Plan'hed 28 c 31 c 35½c
Made-up—In. 5 6 7
Smooth 7½c 8c 9½c
7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... " ..27c
7 to 6 in. Planished Tapers.....45c

"Yale" Pipe—Stove—
Crated — Nested — Polished Steel.
5-in., 28 ga., Pat. Lck...jt, $0 10
6-in., 28 ga., Pat. Lck...jt. 10½
7-in., 28 ga., Pat. Lck...jt. 14½
7 to 6. 28 ga., Pat. Lck...jt, 16
Duplex—Uniform Blue Steel—
5-in., 28 ga., Pat. Lck...jt. 08½
6-in., 28 ga., Pat. Lck...jt. 09½
7-in., 28 ga., Pat. Lck...jt. 12
7 to 6. 28 ga., Pat. Lck...jt. 13½

Wrought Iron Gas Pipe
⅛@¼-in., black.....discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in., black... " 70%
7 " 12 " .. " 62½%
⅛@¼ galvanized " 42%
⅜@½ " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Sargent Iron Bench.....60&10%
Stanley Iron Bench.....25&10%

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... .... . " ... 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " . 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz.....$2.40 $2.80 $3.70 $4.60

Button's Pattern.
In. 4½ 6 8 10
Per doz.....$2.00 $2.40 $3.00 $4.00

Cutting.
Bernard's.....40%
Lodi.....60&10&5%

End and Diagonal Cutting.
Swedish Side 70%
Utica Drop Forge & Tool Co....50%

Fencing.
Farmers' Choice....per doz ..$8 00
Russell's..... " .. 8 25

Flat and Round Nose.
Bernard's.....40%
German 65%
Lodi.....55%
Paragon.....50&10%

Gas—In. 6 8 10 12
Per doz...$3.35 $3.00 $4.00 $5.00

Tinner's.
Hollow.... .....40%
Solid..... each..5½c

PLUMBS AND LEVELS.

Common.....75%@75&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

Stanley's.
Nos. 00 0 2 3
Per doz..$4.50 $5.00 $7.35 $8.40
Nos. 30 25 50 35
Per doz.$12.00 $17.00 $17.00 $12.00

POINTS.

Drive Well Points.....75&10%

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'ls " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz.$5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.
Pts. 1-6 ½ ¾
Per doz.....$0.80 $1.10 $1.65
Pts. 1 2 4 8
Per doz $2 75 $4.50 $7.50 $12.50
White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine
Pts. 1-6 ½ 1 2
Per doz.....$0.70 $1.35 $2.25 $3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz 2.25
U. S. Liquid, 8 oz. cans, per doz., $1.25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 ℔ cans....pr gro. 13 00
Black Jack, ¾ ℔ cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$1 00
Square, 1½ qt..... " 1 25
Square, 2 qt..... " 1 50
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25%
Henis .....per doz. $2 00

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80&5%

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Blackhawk..... " .. 6 50
Morrill's..... " .. 10 50

Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%

Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... .... " 2 15

Hot House—Jap'd .....50&10%
Screw..... " 60%
Side ..... " .....50&10%

Sash.
Clark's .....per doz $0 36
Common Sense, 2 in .. " 22
" Pattern, 2 in.. " 20
Empire..... " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.
Nos. 1 2 3 4
Each .....$.90 1.00 1.10 1.40

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25

Machine.....per ℔. 19

Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 ℔s. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Matchless, 1½ in 3½c
Storm King..... 4c
World's Best 7c

Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood.....per doz. $5.20

Garden.
Steel.....75&10%
Steel, bow.....75&7½%
Malleable Iron, heavy.....70&10%

Hay.
Wood.....$1.50@$2 00

Lawn—Wood.
XXX.....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ic 50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.

Black and White Japanned. .70&10%
Nickel Plated.....70&10%
Electroplated, Brass, Bronze or Copper.....70&10%

RINGS

Bull.
Copper..... 2½ in 3 in.
Per doz..... $1.10 $1.35
Rea's Impro'd Self Piercing copper, pr d'z. 1.60
Steel per doz.. .85 .95
Nickel Plated 1.35 ...

and Ringers—Hog.
Blair's Rings.....per doz. $0 45
Blair's Ringers..... " 60
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 45
Hill's Ring, boxes..... " 40
Major Rings ..... " 60
Perfect Ringers..... " 80
Wolverine Rings..... " 1 30
Wolverine Ringers... " 60

Fruit Jar.
White.....per ℔ 30c

Key.
Split, round.....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt 40%
Coppered Iron 75%
Tinners' 70%

Hame .....per ℔. $0 10

Slotted Clinch.....per doz. 40c@45c

Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per ℔. 11½c
¼, 5-16-in. Com. in coils .. " 12c
¼, 5 16 Imperial in coils . " 21c

Sisal.
Rates.....10½c
Premier, rates .....per ℔. 8½c

Pure Manila.
Rates..... " 13½c
Premier, rates ..... " 12½c

RULES.

Boxwood.....70%
Ivory .....45&5%

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40%
Disston's .....30&5%
Jackson's.....30&5%

Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40%
Atkins' Nos. 77, 78.....60%
Atkins' No. 79.....50&5%
Disston's.....40&5%

Circular.
Atkins'.....50%
Disston's.....50%
Hiles'.....50&10%

Compass.
Atkins' Nos. 2 & 3 .....40%
Atkins' Nos. 4 & 5.....40&10%
Common.....per doz. $1.35@$1.60
Disston's.....25&7½%

Cross-Cut.
Atkins'.....35&40%
Disston's..... 40&10% &50%

Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75

Hack.
Atkins'.....40%
Disston's.....25%
Keystone.....30%

Hand and Rip.
Atkins'.....40%
Brown's .....30&7½%
Disston's No. 7.....35&5%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120.....30&5%
Keystone.....35&5%
Enterprise, hand.....per doz.$5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50

Keyhole—Disston's.....30&5%
Atkins' No. 5.....40&10%
Atkins' No. 6.....40%

Kitchen.
Atkins' .....50&10%
Sterling.....25%

One Man 50%

Panel.
Atkins'.....40&10%
Brown's.....30&7½%
Disston's No. 7.....35&5%
Disston's No. D100.....30&5%

Pruning.
Atkins' Nos. 1, 2 & 3.....35%
Atkins' Nos. 5, 6 & 7.....40%
Brown's.....25&7½%
Disston's.....30&5%

Wood.
Atkins'.....40&10%
Common.....per doz. $4 50
Forest Clipper..... " 5 00
Happy Medium..... " 7 00
Perfection ..... " 8 00
Crescent..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10%

Platform.
Osgood.....50%

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Box.
Stanley's Adjustable, per dcz.$3 00
Triangular..... " 4 00

Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80

Road.
Cubic ft. 7 5 3
Without runners, ea.$4.00 3.75 3.50
With runners.... " 4.25 4.00 3.75

SCREWS.

Bench.
Iron, in,..... 1 1½ 1¾
$3.25 $3.75 $4.50
Wood, white maple..per doz. $3 50

Hand—Wood.....30%

Hand Rail.....80&10%

Jack .....70&10&10%

Lag or Coach—all sizes, gimlet pointed.....75&5%

Saw—Centennial.
Nos. 1 2 3 4 5 6
Per doz. 18c 20c 26c 30c 23c 25c

Wood.
F. H. Bright.....87½&10&10%
R. H. Blued.....85&10&5%
F. H. Jap'd.....82½&10%
F. H. Brass.....85&10&5%
R. H. Brass.....80&10&5%
R. H. Nickel Plated.....80%

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass..... " 7 75
Vulcan..... " 7 25
Honest Dutchman..... " 7 00
Challenge..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60¢

SETS.

Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
Square, Triumph.... " 90
Cup Point, knurled, pr. doz. 90c@$1.00

Rivet.
Farmers'.. .....per doz. $1 20
Tinners'.....50&10¢

Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch.. " 6 50
" X Cut..... " 12 00
German ..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 75
Leach's..... " 4 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz. $1 60
Smith & Hemenway.....20¢

SHAVES, SPOKE.

Iron.....per doz. $1.35@$2.75
Wood..... " 2.75@ 4.75
Bailey's.....50&5¢
Goodell's.....15¢
Stanley's Universal.....30&5¢

SHEARS.

Pruning.
Buckeye, No. 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat. 9 in.. " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00

Sheep—No. BBA.

Inches	6	6½	7
Reg. Grip	$11.25	$11.50	$12.00
Nar. Grip, doz.	11.00	11.25	12.25

Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.

Inches	3	4	5
Per set	$0.34	$0.42	$0.70

Hatfield's.

Per set	.75	1.00	1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union..... per doz. $6.75

SHIELDS.

Expansion Bolt Shields.....50&10¢

SHOES.

Conductor .....60&10¢

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No. 2 Woodford .....per doz. $5 50
No 182. ..... " 6 00
Ames' new list.....Discount 12½¢

Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00

Drain.
Iwan's Perfection.....50¢

Railroad, Etc.
Black Diamond.....per doz $10 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames' new list.....Discount 12½¢

Snow.
Per doz.....$1.65@$9.00

Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted..... 60¢
Enameled, White.....65¢

Wrought Steel.
Painted, new list.....40-10&5¢

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓¢
German Pattern.....30&5¢
Judd's Pattern.....50¢

SNATHS.

Double Ring, Bush.....per doz. $5 50
Patent Loop " .... " 5 75
" " Grass..... " 5 25

SNIPS, TINNERS'.

Heinisch's..... 40&5¢
National.....40&10¢

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.

Nos	1	2	3	4
Per doz	30c	35c	40c	45c

Reliance.
Per doz.....light $1.25; heavy $2.50

Star.
Per doz..... light 90c; heavy $1.35
Torrey's.....per doz. $1.35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.

Steel and Iron.....70&10¢
(Add for Bluing, $2.50 per doz., net)

Mitre.
Stanley's No. 12.....60¢

Try.
Stanley's No. 20, new list...45&10¢
" No. 12 and 14.....55¢

Try and Bevel.
Stanley's .....55&5¢

Try and Miter.
Fox's.....per doz. $5.75
Winterbottom s.....70¢

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated .... " 4 50

STAPLES.

Blind.
Barbed.....per ℔ 9½@9½c

Butter Tub..... " 8@8½

Fence—less than carload.
Polished.....per 100 ℔ $2 30
Galvanized..... " 2 60

Netting.
Galvanized..... ...per 100 ℔ 4 00

Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85&10¢
Extra heavy..... .....85¢

STEELYARD.

Discount 25¢

STONES.

Axe.
Hindostan.....per ℔ 5½@7c
More Grit..... " 9½c
Washita ..... " 17 c

Emery.....60¢@60&5¢

Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per ℔ 6½@6½

Oil—Unmounted.
Arkansas Hard.....per ℔ $2 05
Arkansas Soft..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita ..... " 26

Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown ..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50

Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Star Tackle Block.... " 9 50
Warner's..... " 6 25

SWIVELS.

Malleable Iron.....per ℔ 6½c
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&5¢
American Wire.....85&25&10¢
Bill Posters Cut.....90&30¢
Blued Carpet.....90&10¢
Tinned Carpet.....90&10¢
Gimp.....90&10¢
Upholsters' Cut .....90&20¢
Upholsters Wire.....90&10¢
Double Pointed.....90&20¢
Copper.....per ℔ 32c
Canvas Nails.....75&5¢
Clout Nails .....75&5¢
Hungarian Nails .....80&5¢

TAPES, MEASURING.

Asses' Skin.....35¢
Bend Leather.....15¢
Patent Leather.....15¢
Lufkin's Steel.....25¢
Lufkin's Metallic.....25¢

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&10¢
All other kinds.....70¢

Cow—See "Chains."

TOOLS, SAW.

Atkins' Dexter.....per doz. $4 50
Atkins' Excelsior..... " 6 50
Disston's Universal.....40¢

Minature.
Smith & Hemenway.....25¢

TRAPS.

Fly.
Balloon.....per doz. $0 90
Harper's..... " 1 00

Game.
Newhouse.....40&10¢
New Victor.....70¢

Mole.
Reddick's.....per doz. $6 25

Mouse and Rat.
Wood Choker...per doz. holes $0 11
Tin Choker..... " " 10
Delusion.....per doz. 1 00
Marty Rat..... " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 25

TROWELS.

Brick.
Standard.....40¢
Brade's.....15&5¢
Disston's.....30¢
Rose's.....25¢

Plasterers.
Standard.....40¢
Disston's.....25¢
W. & McP.....25¢

TRUCKS.

Bag.....each $2 00
Handy..... " 1 70
Warehouse .....60&5¢

No	1	2	3
Half Ironed	$3.00	$3.85	$5.50
Full Ironed	3.45	4.50	6.45

TUBS, WASH.

Standard. Nos	3	2	1	Ex. large
Per doz	$5.00	$6.00	$7.00	$ 9.50
Dowell. Per doz	5.35	6.35	7.00	9.50
Cedar. Per doz	6.10	7.10	7.90	10 80
Indurated. Per doz	8.55	9.45	10.80	13.50
Galvanized. No	1	2	3	
Per doz	$4.75	$5.25	$5.85	

TWINE.

Per ℔

3-ply Cotton Wrapping.....19c
¼ " " " 19c
¼ " " Extra Wrapping.....22c
¼ " " " Hvy. Wrapping..20c
¼ " " Wrapping on tubes...22c
3 " " " " cones...20c
¼ " " " " " ...20c
India Hemp, ¼-lb. balls.....17c
" " ¼-lb. " 16c
" " ¼-lb. " .....doz. 63c
2-ply " ¼-lb. " 11c
3-ply " ¼-lb. " 10c
Jute Wrapping, ¼-lb. balls.....11c
Jute Wool, 1-℔. balls.....6½c

Seine.

Nos	9	12	15+
Soft.....per ℔	26½	26	25
Med..... "	26½	26	25
Hard .... "	27	26½	26

Staging, ¼-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c

Fodder or Lath.
130-strand 6½c
200 strand.....7½c

VISES.

Bonney's.....35¢
Cheney's .....20¢
Parker's Oval Slide.....50, 10&2½¢
Sargent's Oval Slide,

In.	2½	3	3½	4½
Ea.	$1 00	$1 25	$1 65	$2 00

Parker's Parallel.....18&20¢
Parker's Victor.....15¢
Parker's Combination.....75¢
Solid Box.....50¢
Adam's Mechanics'.....each 2 50
Williamson Universal.....60¢

WARE.

Stove Hollow Ware.
Plain or Unground .....60¢
Ground Ware.....50&10¢
Enameled Ware.....50¢

Country Hollow Ware, per 100 lbs. $2.75

White Enameled Ware.
Maslin Kettles.....60&10&10¢

Covered Ware, Tinned and Turn'd. 40¢
Enameled .....50¢

Glue Pots, Tinned.....30¢
Enameled.....35¢

Enameled.
Cherry Blossom and Chrysolite. 50¢

WASH BOARDS—See Boards.

WASHERS.

Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:

In.	½	⅝	¾	⅞	1	1¼	1½
	7½c	5½c	4c	3½c	3½c	3½c	3½c

Wrought steel in 5 ℔. boxes, per ℔.

In.	½	⅝	¾	⅞	1	1¼	1½
	8½c	6½c	5c	4½c	4½c	4½c	4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz.....30c
Galling ....per ℔ 10½c
Saw ..... " 8½c

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.

Hitching .....per ℔ 2½c
Sash—F.O.B. Chicago...pr ton $24 00

WHEEL BARROWS.

Common Railroad....per doz..$15 00
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No. C4 Tubular " " .. 45 00
No. C5 " " " .. 48 75

WHEELS.

Corundum .....70&10&5¢
Emery .....75&5¢

Well In.	8	10	12	14
Per doz	$2.10	$2.50	$3.15	$5.00

WIRE.

Barbed	Painted.	Galv'd.
Carloads..per 100 lbs..	$2.20	$2.50
Less than car " ..	2.25	2.55

Brass
In coils.....20¢
In 1 ℔ spools, new list.....50&10¢

Broom—Tinned.....60&10&10&10¢

Cable—Same price as Barbed Wire.

Copper.
In coils.....20&10¢33⅓¢
In 1 ℔ spools, new list .... 50&10¢

Fence—Smooth.
Nos. 6 to 9, An'eal'd, per 100 lbs. $2.10
Nos 6 to 9, Galvl'd... " 2 40

Hair—New list.....50&10¢

Market.
Bright, full bdles.....70&10¢
Bright, broken bdles .....70¢
Coppered, full bdles .... ..70¢
Coppered, broken bdles.....65&10¢
Tinned, full bdles..... 70&5¢
Tinned, broken bdles.....65&10¢

Picture—In coils.....80¢@80&10¢
In 5 ℔. spools .....per ℔..26c

Plain—Small lots..... $2.10
Car lots 2.05
Small spools 5c per hundred higher.

WRENCHES.

Acme Standard.....60¢
Alligator .....75&80¢
Always Ready..... .....50&10¢
Bemis & Call No. 2 Improved Pipe Wrenches.....80¢
Coe's Standard.....40&10¢
Agricultural.....75&10¢
Ellis Adjustable.....25¢
Malleable "S".....per ℔. 05½c
Malleable..... " 05½c
Stillson Pipe .....70&5¢
Trimo " .....70&5¢

WRINGERS.

Clothes.
No. 22, Guarantee....per doz. $32 00
No. 110, Guarantee.... " 32 00
No. 110, Brighton..... " 22 00
No. 110, Bicycle ..... " 31 00
No. 500, Royal ..... " 32 00
No. 350, Universal.... 27 00
No. 300, Novelty..... " 27 00
No. 310, Keystone . .. " 27 00
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Ammunition

Peters Cartridge Co., Cincinnati, O
Stevens, J Arms & Tool Co., Chicopee, Mass

Augers—Post Hole

Iwan Bros., Streator, Ill

Bins

Revolving Bin Co., Chicago, Ill

Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

Brass

Hungerford, U. T., Brass & Copper Co. New York, N. Y.

Buggies

James & Meyer, Lawrenceburg, Ind.

Cans

American Can Co., Chicago, Ill
Stuber & Kuck, Peoria Ill

Carpenter Benches

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools

Stanley Rule & Level Co., N. Britain, Ct

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Peters Cartridge Co., Cincinnat O

Cases

American Bolt & Screw Case Co., Dayton, Ohio

Ceilings—Metal

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, Ohio
Friedley & Voshardt. Chicago, Ill
Keighley Met. Ceiling Co. Pittsburg, Pa
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
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Clips—Carriage Trimmer's

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Clothes Pins

U. S. Clothes Pin Co., Montpelier, Vt

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Coffee Mills

Enterprise Mfg. Co. of Pa., Philadelphia, Pa

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Berger Bros. Co., Philadelphia, Pa
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Conductor Pipe

Berger Mfg. Co., Canton, O
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Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
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Berger Mfg. Co., Canton, O
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Bertsch & Co., Cambridge City, Ind
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Cut Offs—Rain Water

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Elbows—Conductor Pipe

Dieckmann, F., Cincinnati,
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Elevators

Kimball Bros. Co., Council Bluffs, Ia

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Briscoe Mfg. Co., Detroit
Lalance & Grosjean Mfg. Co., Chicago
Reed Mfg. Co., Newark, N. Y
Roseland Can & Spec. Co., Rockford,
Star Enameling and Stamping Co., Pittsburgh, Pa

Enameling and Stamping Plants

Volkammer & Co., Pittsburg

Engineers & Contractors

Volkammer & Co., Pittsburg

Fencing

Butler Bros., New York, Chicago, St. Louis
Cyclone Woven Wire Fencing Co. Waukegan, Ill
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Pittsburgh Steel Co., Pittsburgh, Pa
Stewart Iron Works Co., Cincinnati, O

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Lennox Furnace Co., Marshalltown, Ia
Mannen & Esterly Co., Cleveland, O
March-Brownback Stove Co., Pottstown, Pa
Miller, Wm. Range & Furnace Co., Cincinnati, O
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Mueller, L. J. Furn. Co., Milwaukee, Wis
Patric Furnace Co., Springfield, O
Peck-Hammond Co., Cincinnati, Ohio
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Schill Bros. Co., Crestline, O
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Wellsburg Heating & Fdy. Co., Wellsburg, W. Va.
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Wise Furnace Co., Akron, O
Youngstown Furn. & Supply Co., Youngstown, O

Furnace Pipe and Fittings

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Hardware
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Hardware Jobbers
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Simmons Hdw. Co., St. Louis
Paxton & Gallagher Co., Omaha

Hardware Specialties
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Mueller, L. J. Furn. Co., Milwaukee, Wis

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North Bros. Mfg Co., Philadelphia, Pa

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Lalance & Grosjean Mfg. Co., Chicago

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Lawn Mowers
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Windhorst & Co., St. Louis, Mo

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Security Lightning Rod Co., Burlington, Wis

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Blick-Williams Co., Indianapolis, Ind
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Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Chicago, Ill

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Harrington & King Perforating Co., Chicago, Ill

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City

Miters
Whitacre Mfg. Co., J. E., Rockford, Ill

Mop Wringers
Eagle Cooperage Wks., Circleville, O

Nickel-Steel Ware
Lalance & Grosjean Mfg. Co., New York, N. Y

Nuts
American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus O
Garland Nut & Rivet Co., Pittsburgh, Pa

Oil Cans
Cooney & Geiger, Indianapolis, Ind

Oars
Strand & Youngquist, Minneapolis

Paints
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago
Heath & Milligan, Chicago, Ill

Pencils
Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Photograph Clips
U. S. Clothes Pin Co., Montpelier, Vt

Pistols
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes
Stanley Rule & Level Co., New Britain, Ct

Pumps
Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Hess-Snyder Co., Massillon, O

Punches
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Ranges
Champion Steel Range Co., Cleveland, O
Culter & Proctor Stove Co., Peoria, Ill
Pittsburg Stove & Range Co., Pittsburg, Pa

Rasps
Disston, Henry & Sons., Philadelphia, Pa

Registers
Columbian Hdw. Co., Cleveland, O
Ferro Steel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Independent Steel Register Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis

Rifles
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets
Hungerford, U. T., Brass & Copper Co., New York, N. Y

Roofing
Johns-Manville, H. W. Roofing Co., New York, N. Y
Niles Corrugating Co., Niles, O

Roofing—Asphalt
Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Schoedinger, F. O., Columbus, O
Sykes Steel Roofing Co., Chicago, Ill

Roofing Cement
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Garry Iron & Steel Co., Cleveland, O

Roof Paint
Conners, Wm. Paint Mfg. Co. Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules
Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Sad Irons
Enterprise Mfg. Co. of Pa. Philadelphia, Pa

Safety Razors
Gillette Safety Razor Co., New York, N Y
Kampfe Bros., New York, N Y

Sash Balances
Pullman Mfg. Co., Rochester, N.Y

Saws and Saw Sets
Atkins, E. C. & Co., Indianapolis, Ind
Diamond Saw & Stamping Co., Buffalo, N. Y
Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales
Beckman Bros., Des Moines, Ia

Screens—Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Screens—Radiator
Harrington & King Perforating Co. Chicago, Ill

Screws
Columbus Bolt Works, Columbus, O

Screw Drivers
North Bros. Mfg. Co., Philadelphia, Pa

Scuttle Openers
Bickelhaupt, G., Skylight Works, New York, N. Y

Shears—Sheet Metal
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheet Metal Specialties
Friedley & Voshardt, Chicago, Ill
Gerock Bros. Mfg. Co., St. Louis, Mo

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shelving—Hardware
Heller & Co., Mont Clair, N. J

Shot Guns
Stevens Arms & Tool Co., Chicopee Falls, Mass

Shovels
Avery Stamping Co., Cleveland, O

Sifters
Stuber & Kuck, Peoria, Ill

Skylight Gearing
Bickelhaupt, G., Skylight Works, New York, N. Y
Weiss, H. & Co., New York, N.Y

Slate
Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y
O'Halloran & Jacobs, Pittsburgh, Pa

Soldering Furnaces
Brainard Mfg. Co., Bryon, O
Clayton & Lambert Mfg. Co Detroit
Diener, Geo. W. Mfg. Co., Chicago
Turner Brass Co., Chicago, Ill

Sporting Goods
Cycle Skate & Spt. Goods Co., New York
Enterprise Mfg. Co., Akron, O

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, New York City, N.Y
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal
Avery Stamping Co., Cleveland, O

Steel Brick and Stone Siding
Wheeling Corrugat'g Co., Wheeling, W. Va

Steel Roofing
Garry Iron & Steel Co., Cleveland, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Sykes Steel Roofing Co., Chicago, Ill
Niles Corrugating Co., Niles, O
Merchant & Evans Co., Philadelphia, Pa

Stoves and Ranges
Beckwith, P. D. Estate, Dowagiac, Mich
Culter & Proctor Stove Co., Peoria, Ill
Glazier Stove Co., Chelsea, Mich
Marion Stove Co., Marion, Ind
Pittsburgh Stove & Range Co. Pittsburgh, Pa
South Erie Iron Works, Erie, Pa
Western Stove Works, Peoria, Ill
Willard, Wm. G., St. Louis, Mo

Stoves—Gas
Clark, Geo. M. Co., Chicago, Ill
Fanner Mfg. Co., Cleveland, O
Pittsburgh Stove & Range Co., Pittsburgh, Pa

Stove Carriers
Kramer Bros. Fdy. Co., Dayton, O

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay
Bridgeport Crucible Co., Bridgeport, Ct

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Pipes
Hemp & Co., St. Louis, Mo
Ohio Stove Pipe & Mfg. Co., New Philadelphia, Ohio
Wheeling Corrugat'g Co., Wheeling, W. Va

Stove Patterns
Cope Pattern Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy, Ill

Stove Pipe Thimbles
Stuber & Kuck, Peoria, Ill

Stove Polish
Cole, G. W. Co., New York, N. Y
Silver Leaf Stove Polish Co., Indianapolis, Ind

Stove Repairs
Brauer, A. G., St. Louis, Mo
Dust, Wm. T. & Co., Detroit, Mich
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings
Fanner Mfg. Co., Cleveland, O

Sugar Kettles
Sperry & Co., Batavia, Ill

Tapes
Lufkin Rule Co., Saginaw, Mich

Test Tube Holders
U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven
Evans Stamping & Plating Co., Taunton, Mass

Thermostats
Howard Thermo. Co., West Oswego, N. Y

Tin—Perforated
Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools
Dreis & Krump, Chicago, Ill

Tinplate
Berger Mfg. Co., Canton, O
Canton Art Metal Co., Canton, O
Eller, J. H. & Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
Lee-Glass-Andreesen Hdw. Co., Omaha
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware
Lalance & Grosjean Mfg. Co., Chicago
Mosheik, P., Chicago
Roseland Can & Spec. Co., Rockford, Ill
Stuber & Kuck, Peoria, Ill

Trowels
Atkins & Co., Indianapolis, Ind
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubs and Pails
Wheeling Corrugat'g Co., Wheeling, W. Va

Typewriters
Remington Typewriter Co., Chicago

Valve Regulators
Howard Thermo. Co., West Oswego, N. Y

Ventilators
Canton Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros., Streator, Ill

Wagons
Sycamore Wagon Works., Sycamore, Ill

Washing Machines
Benbow-Brammer Mfg. Co., St. Louis, Mo
Brammer, H. F. Mfg. Co., Davenport, Ia
White Lily Washer Co., Davenport, Ia

Wire Goods
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS

HUBERT E. PECK, 628 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications."

Wanted—A second-hand revolving bolt and screw case. Address G. F. Chapman, Linton, Ind. 18-3t

Wanted—To invest from $1,000 to $5,000 with service in a good paying business; have had 8 years' experience in hardware and general merchandise business, which I have just sold out. I am looking for a position as clerk with a chance to buy an interest in a good paying business. Address E. S. Alsmeyer, Cottage Grove, Wis. 17-3t

For Sale—One M. & D. 18-in. charcoal broiler with base for $7.50, practically new. Address Mohr-Jones Hdw. Co., Racine, Wis. 17-3t

For Sale—A small stock of hardware, tinner's tools and store building. Address Box 211, Spirit Lake, Iowa. 17-3t

For Sale—Stock of hardware, stoves, tinware, show case goods with tinshop tools, stock, etc., consisting of about $2,000, in the best farming section of northern Illinois. The only stock in town; some furnace and hot water work; furniture may be added or the stock of hardware increased. Good building and rent reasonable; good reason for selling. Address Hardware, Box 6, Kingston, Ill. 17-3t

For Sale—Whole or half interest in well established $6,000 hardware business in Michigan. Address Heavy, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

For Sale—A good clean stock of hardware, stoves and tinware connected with tinshop. Located in a good business street in Chicago. Will invoice about $15,000; good reason for selling. Address North, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

For Sale—Hardware stock with tinshop in connection; will invoice $2,500; in good town and farming country in central Wisconsin; population 1,000. Satisfactory reason for selling. Address Junior, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

For Sale—Tinner's shop, galvanized iron garbage and ash can business; splendid trade; can be doubled within a year. Good location, no competition within a mile; $2,500. J. L. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

For Sale—Hardware stock and building. This is a fine, clean, up-to-date $4,000 to $5,000 stock (can be reduced). Located at Livermore, Humboldt Co., Ia. Good farming country; nice town, good graded schools, four churches, brick and tile factory, two railroads, about 20 business houses, two hotels, two lumber yards, three elevators, plenty of timber, and a pretty place; ¼ mile from Des Moines river; a good place to live, bring up your children, and make money. Prices not all cut to pieces; land trade not considered. Store and tin shop, wareroom, 22x140, two-story. Living rooms above. Part time on building, if wanted; will give a bargain, if taken soon. Business established by me for 20 years. Rheumatism and poor health reasons for selling. Write or call on J. W. Leighton, Livermore, Iowa. 16-3t

For Sale—Cornice, tin and furnace shop in one of the best cities in Colorado. Business averages about $8,000 a year; good opening for out of town work. Poor health reason for selling. Address T. C. S., care THE AMERICAN ARTISAN, Chicago, Ill. 16-3t

Wanted—As a side line, a granite ware line, for Nebr., on commission. Good goods only. Address P. A. Williams, Strawberry Point, Iowa. 16-3t

For Sale—One No. 1 20-inch Gutter Beader; one No. 0 30-inch Gutter Beader; one No. 1 Tin Pipe Former, with 1½-inch hole; one large beading machine, and one Peckham's stove pipe crimper. Address Bartholomew Hdw. Co., Ashley, Ohio. 16-3t

Wanted—A competent set of up-to-date gas heater and hot plate patterns; send description or photos and state prices. Address E. H. Kraus, 140 Broadway, Cleveland, Ohio. 15-4t

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements. Also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address, No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

TINNERS' TOOLS.

Wanted—A good set of tinners' tools; must be in good condition; state price by piece and for lot. All prices must be f. o. b. cars, Mitchell, S. D. Address E. C. Barnes, Mitchell, S. D. 17-3t

HELP WANTED.

Wanted—A good reliable tinner; one who understands furnace work; steady work; write at once. Address Johnson & Wyth Co., 312 Main st., Cedar Falls, Iowa. 18-1t

Wanted—To buy hardware stock of about $1,500 in Illinois, Iowa or Indiana. Address H. W. Gardner, 146 Park ave., Chicago, Ill. 18-2t

Wanted—An honest, sober and industrious tinner and furnace man; state wages and references in first letter; steady employment for the right man. Address Teverbaugh-Bothfuhr Mrc. Co., Grant Park, Ill. 18-3t

Wanted—A young experienced tinner and furnace man; must be strictly temperate; state ability, experience and salary. Address Kratz Bros., Mattoon, Wis. 18-2t

Wanted—Good tinner; steady work for the right man; one who speaks German preferred. Address F. O. Leigh, Prairie Du Sac, Wis. 18-3t

Wanted—A good, sober, all around tinner and slater that knows the trade thoroughly; must be sober and industrious; good, steady job for the right man; wages $2.50 per day of eight hours; union shop. Address E. W. Hiatt, 736 Main st., Anderson, Ind. 18-3t

Wanted—Experienced tinner and practical furnace man; German preferred; wages $3.00 per day; steady work for competent man; must be sober; give references. Address G. W. Wolbert, Bismarck, N. D. 18-3t

Wanted—At once, a first-class tinner and sheet metal worker to do inside and outside work; must be sober and industrious; shop fully equipped and city progressing; good wages to the right man; write at once; give age and nationality. Address Lock Box 18, Antioch, Lake Co., Ill. 18-3t

Wanted—First-class tinner who can do plumbing; $3.00 per day and steady work. Address Lincoln Tank & Plumbing Co., Lincoln, Kans. 17-3t

Wanted—A plumber and steam fitter, one who can do plumbing and heating. Will pay $100 per month first year, steady work the year around with a raise in wages the second year. Address Miles & Ulmer, Miles City, Mont. 17-3t

Wanted—A first-class tinner and slate roofer at once. Steady job; none but sober, industrious men need inquire. Address E. O. Kerns, 217 No. Broad St., Lancaster, Ohio. 17-3t

Wanted—Good all around tinner; steady job to a good steady man. Address Wolff & Kubly, Madison, Wis. 17-3t

Wanted—Good plumber with some knowledge of tinning; good wages and steady job; must be sober and furnish references. Address G. E. Blockie, Idaho Falls, Idaho. 17-3t

Wanted—Shop foreman for one of the largest sheet metal plants in Ohio, making full line of galvanized cornices, skylights, metal windows, etc. One with some knowledge of pattern cutting preferred. State age, experience and salary expected. Address J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

Wanted—At once, a good all around tinner who thoroughly understands inside and outside work, pipe fitting and some plumbing. Steady job for the right man the year around. State wages wanted and references in first letter. Address Rud Puchner, Wittenberg, Wis. ufn

Wanted—At once, a good tinner for shop and outside work. Steady job. Address Reiche Bros., Naperville, Ill. 17-3t

Wanted—Good hardware salesman to sell two patented specialties of real merit as a side line; ready sale and in daily use. Address S. A. Peck Hdw. & Mfg. Co., Box E, Berlin, Wis. 16-3t

Wanted—A good all around tinner for inside and outside work; charge of shop. Good wages; steady job. Apply at once. G. B. Watrous & Son, Waukegan, Ill. 16-3t

Wanted—At once, a good tinner and furnace man; must clerk in store and be willing to canvass country; honest and temperate. Prefer man accustomed to working in country towns. Address Box 108, Kirkland, Ill. 16-3t

Wanted—Tinsmith, one competent to put on tin and galvanized roofing, spouting, guttering, etc. Steady job for the right man. Address D. A. Clark, Van Wert, Ohio. 16-3t

Wanted—At once, plumber. Steady job for right man. Must have or get state license. State wages wanted. Address State, care THE AMERICAN ARTISAN. 16-3t

Wanted—Stove salesman, for Kansas State age and salary expected. Address The Art Stove Company, Chicago, Ill. ufn

Wanted—Two first-class tinners. Wages 35c per hour, with steady work. No combination mechanics wanted. No boozefighters need apply. Address C. S., care THE AMERICAN ARTISAN, Chicago, Ill. 16-3t

Wanted—By a wholesale stove house, an experienced stove porter for trucking stoves and who understands repairing thoroughly; must be strong and strictly sober; steady job to the right man; references required. Address Wholesale, care THE AMERICAN ARTISAN. 16-3t

For Sale—Stock of hardware and two-story brick building, 22x80 feet, situated in town of 1,000 in East Central Wisconsin; good farming country, dairying, stock raising, potatoes, grain and sugar beets the principal industries; stock invoices about $4,000; if interested it will pay you to investigate. Address W. & J., care THE AMERICAN ARTISAN, Chicago, Ill. ufm

For Sale—Good clean stock of hardware and building with complete tinshop in connection; stock will invoice from $4,000 to $5,000; all in good condition and up-to-date; located at Livermore, Iowa; surrounded by good farming country; good schools, churches, brick and tube factory, two railroads, two hotels, lumber yards, about 20 business houses and plenty of tinners; good place to make money and prices are not cut to pieces; store, tin shop and warerooms 22x140 feet; nice living rooms above; part time on building and lot if wanted; no land trade considered; big bargain if taken at once; business established for 20 years; poor health reason for selling out. Address J. W. Leighton, Livermore, Iowa. 15-5t

Wanted—First-class salesman, by leading furnace and boiler manufacturer. Only men who have had actual experience in warm air, steam and hot water heating wanted. Prefer men who have sold goods to the trade. Excellent opportunity for the right man. Established trade in territory. Address O. B. J., care THE AMERICAN ARTISAN, Chicago. U. F. N.

Wanted—At once, a competent furnace and boiler salesman for the State of Illinois. Address Furnace Salesman, care of THE AMERICAN ARTISAN, 69 Dearborn, Chicago. U. F. N.

SITUATIONS WANTED.

Situation Wanted—In up-to-date shop by a tinner of 15 years' experience in country shops: good steady worker; but don't know it all; age 40. Address 15-40, care THE AMERICAN ARTISAN, Chicago, Ill. 18-3t

Situation Wanted—A first-class tinner of 15 years' experience in large job work desires a good position; can speak German, Bohemian and English; best of references; Chicago job preferred. Address Max Weiss, 455 N. Ashland ave., Chicago. 18-3t

Situation Wanted—All around tinner with some knowledge of plumbing; state wages in first letter. Address 516 W. 4th st., Estherville, Iowa. 18-3t

SITUATIONS WANTED.

Situation Wanted—By an active tinner and furnace man; can do hot water and steam fitting; also ordinary plumbing; considered an expert in the heating department; good hardware salesman; 20 years' experience in these branches; wants steady position in a good-sized town with a firm that will appreciate honest effort; no boozer; best of references. Address Box 147, Winterset, Iowa. 18-3t

Situation Wanted—By a tinner, plumber and furnace man of 15 years' experience. References furnished; only steady position considered. Address L. H., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

Wanted—Position as working foreman or sheet metal drafter in tinshop located within 75 miles of Chicago. I invite correspondence with firms having or anticipating such a vacancy during the summer or early fall. Young married man familiar with hot-air combination and hot water heating; capable of taking contracts and planning work. Address F., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

Situation Wanted—By a first-class tinner for inside and outside, furnace and job work. Address C. S., Odell, Ill. 17-3t

Wanted—A position by a young man to finish his trade; have had 1½ years' experience; age 19; no bad habits. Address Walter Koenecke, 163 Winston St., Freeport, Ill. 17-3t

Situation Wanted—By a practical man that understands all branches of the stove and range business, including gas ranges, both in manufacturing and selling ends. Address Practical, care THE AMERICAN ARTISAN, Chicago, Ill. 16-8t

SPECIAL NOTICES.

WANTED.

A large foundry in Pennsylvania making stoves, furnaces and boilers, is in need of a foreman metal pattern maker. Must be absolutely first-class. State wages wanted and references. Address, "Steady Job," care AMERICAN ARTISAN.

Hardware Stock Wanted

In exchange for good improved farm in Iowa or Illinois. Address Farm, care of The American Artisan.

WANTED

Experienced tinner and furnace man. Must be steady and sober. State ability, experience and salary.

MORGAN,

1-2t. Starkweather, N. Dak.

FOR SALE.

One Double-Truss Improved 10-ft Brake. Has been used but a few months; in first-class condition—good as new.

THE W. H. MULLINS CO.,

4t- Salem, Ohio.

Special Notice.

Wanted—Traveling Salesman. To sell a well known line of stoves and ranges. Men wanted for Ohio and Minnesota, must be competent and know the trade. Good salary. Address H. W., care of AMERICAN ARTISAN, Chicago, Ill.

WANTED

Traveling salesman to sell the Matchless Steel Ranges on commission. Address, Landay Steel Range Co., St. Louis, Mo.

Manufacturing Plant For Sale.

Products, small farm implements, stoves and bobsleds; sale imperative; can be turned over with established business as going concern; located in a Michigan city; labor conditions satisfactory. Address DETROIT TRUST CO., Detroit, Mich.

WANTED

Small Drop Press, hand power preferred. Also, a couple of first-class Tinners and Cornice makers. C. C. Fouts, Middleton, O.

WANTED

By Chicago Stove House, experienced, energetic, stove salesman, for Indiana, Illinois and Iowa. Must furnish good references and be willing to hustle. Address, "Cardinal" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3t-20

WANTED

Position as traveling stove salesman by man with several years' experience in Western and Northwestern territory. Address "Western Salesman," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 17-3t

WANTED

Good cornice and sheet metal workers. Permanent work for good men. Others need not apply. Address

DULUTH CORRUGATING & ROOFING CO.,

u.f.n. Duluth, Minn.

WANTED

Pattern cutter and foreman for cornice and sheet metal shop employing 25 men. State experience and salary expected. Address "Pattern Cutter," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-4t

WANTED.

First-class salesmen, by leading furnace and boiler manufacturer. Only men who have had actual experience in warm air, steam and hot water heating wanted. Prefer men who have sold goods to the trade. Excellent opportunity for the right men. Established trade in territory. Address O. B. J., care AMERICAN ARTISAN, Chicago. u.f.n.

WANTED

Wood Pattern Makers on Stove work. Address "Pattern Maker," care of AMERICAN ARTISAN.

u. f. n.

FOR SALE

A Hardware and Implement Specialty Manufacturing business, started 14 years ago in a small way *without capital*, has made a living for proprietor and family during the time and gained a surplus of over $20,000, is growing rapidly and is paying now much better than ever. Capital required to buy and run the business about $12,000. Reasons for selling, age and failing health of proprietor. For full particulars address Lock Box 136, Freeport, Ill.

FOR SALE

at

PUBLIC AUCTION

AT LANSING, MICHIGAN,

Manufacturing Plant, Merchandise, Accounts and Business

of

E. BEMENT'S SONS,

LANSING, MICHIGAN

on

May 23, 1906 at 10 o'clock A. M.

Manufacturers of Stoves, Bobsleds, Farm Implements.

Complete Plant, Fully Equipped.
Established business now in operation.
Sale subject to confirmation by the Court..

DETROIT TRUST CO.

RECEIVER

Penobscot Bldg, Detroit, Mich

u. f. n.

C. N. HOOPER, Dubuque, Iowa.

VITREOUS ENAMELING

TECHNOLOGIST

Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.

100 Tinners' Patterns

Complete for ... $1.00

Sent Postpaid on Receipt of Price.

DANIEL STERN, 69 Dearborn St., CHICAGO.

DIXON'S STOVE CEMENT.

Applied easily. Dries rapidly. The best repair for cracked or worn fire-brick.
Circular 18-L and sample upon request.

JOSEPH DIXON CRUCIBLE CO., ... JERSEY CITY, N. J.

THERE IS NO BETTER WAY

BETWEEN

CHICAGO
INDIANAPOLIS
AND
CINCINNATI

THAN THE

MONON ROUTE

4 TRAINS A DAY 4

Standard and Compartment Sleepers on Night Trains. Parlor and Dining Cars on Day Trains.

CHAS. H. ROCKWELL, Traffic Manager
FRANK J. REED, Gen. Pass. Agt.
CHICAGO

Do all the prosperous men in your town have prosperous looking places of business?

Our metal store fronts and steel ceilings impart to a place of business

the appearance of success that begets success

No matter whether the building is brick or wood, big or little, old or new, or not yet built. It makes no difference what it is used for. We can make a front or a ceiling to FIT the building and the pocketbook of the owner.

Our materials are easily and quickly erected, and cost less than anything else having equal advantages. Our entire plant is at the service of dealers selling our goods.

Designs and estimates gladly furnished.

St. Paul Roofing, Cornice & Ornament Co.
The Leading Sheet Metal Plant of the West
Everything in Sheet Metal ST. PAUL

THE
"BIG FOUR ROUTE"
passes through an interesting Country every mile of the way

CHICAGO TO
INDIANAPOLIS
CINCINNATI
LOUISVILLE
and all points
SOUTH
AND
SOUTHEAST

Buffet Parlor Cars or Dining Cars on day trains, and Pullman's finest Compartment and Standard Sleepers on night trains. All trains run solid, Chicago to Cincinnati. The only line from Chicago connecting in the Central Union Depot, Cincinnati, with C. & O., Q. & C., L. & N. and B. & O. S. W. Rys. For reservations, etc., call on or address

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For all kinds of plants using iron and steel and other metals. The country reached by the

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Small foundry in good town for sale cheap. Refer to Washington File 24,657, Chicago File 16,209

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WHICH REACHES THE FAMOUS
Water Powers, Coal Fields, Iron Ore Ranges, Hard & Soft Lumber Districts
of the West and Northwest, and affords the best means of transportation to the markets of the world. For further particulars apply to

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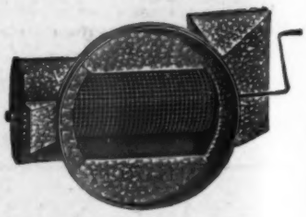
Is a Winner. Pleases Everybody

Sales last season were more than double those of the previous season. Dealers everywhere are enthusiastic over the sale of the Hustler. Orders should be placed at once to insure prompt delivery.



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Also Manufacturers of Hill's Famous Dryers
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The secret of big sales is to show the right thing at the right time.

HERE are two things housekeepers are thinking about buying **now**—Cherry Stoners and Fruit Presses.

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Write for free copies of our newest booklet, "The Cook, Her Critic and—." If you give them away they will make sales for you.

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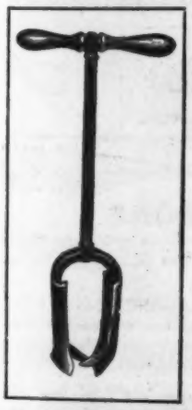
You'll Be Surprised



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Iwan Post-Hole AND Well Auger,

the most largely sold and the most prominently advertised earth auger on the market, our advertising reaching all classes of consumers who have use for a post-hole auger.

It takes a ***Large Variety of Sizes*** to satisfy so many consumers, We make the augers in 3, 4, 5, 6, 7, 8, 9, 10, 12 and 14-inch sizes. 16-inch size in preparation.

ORDER YOUR SPRING SUPPLY

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NEVER RUST, SMUT, BREAK, SPLIT, FREEZE ON OR BLOW OFF THE LINE.
ALSO THE
U. S. Carriage Trimmer's Clip,
U. S. Photograph Clip,
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CLASPS THE CLOTHES IN THE LINE AND HOLDS THEM UNTIL RELEASED.

U.S. CLOTHES PIN CO.,
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ON

THE ERIE, THE COMMERCIAL RAILROAD

Chicago to New York

The Erie Railroad System's Industrial Department has all the territory traversed by the railroad districted in relation to resources, markets and advantages for manufacturing, can advise with manufacturers of specific products as to suitable locations, and furnish them with current information of a comprehensive nature dealing with the project in its full relation to manufacture and commerce.

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Industrial Commissioner
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For Stoves and Heaters

First-class in wood and Iron.

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Prompt Shipments **Give us a Trial**

The GEO. W. COPE Stove Pattern Works Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN.

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DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS

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Excellent. Economical. A Recognized Success. No Experiment.

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FOR POLISHING GOLD, SILVER, PLATED WARE, NICKEL, TIN, BRASS, COPPER, Etc.

DIRECTIONS:
Take a little of the Polish on a soft cloth, rub the Metal hard and then wipe it off with a dry cloth

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Stove Polish That's Black.
Stove Polish That Lasts.
Stands 1800 Degrees.

Aluminum Paint also made by the

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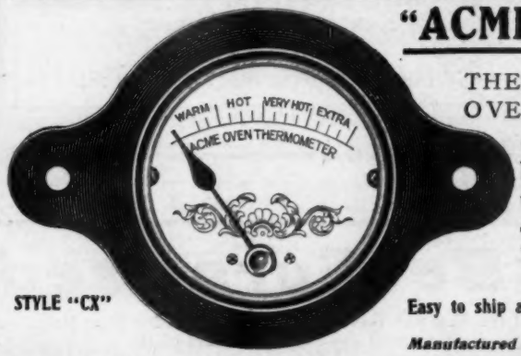
The only Stove Lining made of crucible materials.

Packed in 2½ lb., 6 lb. and 10 lb. pasteboard boxes.

Order it from your jobber.

The best and most refractory lining made.

Bridgeport Crucible Co., Bridgeport, Conn.



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"ACME" OVEN THERMOMETER

THE MOST RELIABLE OVEN THERMOMETER on the Market, as has been proved by some of the largest manufacturers of Stoves in the United States.

Easy to ship and nothing to get out of order.

Manufactured by

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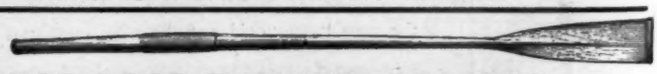

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Write us for Prices, Terms, Etc.

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THE COMING STOVE TRUCK

THE GEM

Ball Bearing Stove Casters

$9.00
PER DOZEN SET

Manufactured by
The KRAMER BROS. FDY. CO.
Dayton, Ohio

HENRY CHAFFEE, AMBRIA, IND., WRITES:

"Please take my ad. out of THE AMERICAN ARTISAN. I got two or three letters daily and have something like twenty jobs in view."

IS "HUMAN NATURE" YOUR CLERK?

The greatest sales force on Earth is a true knowledge of Human Nature. Suppose a man buys a cheap, inferior imitation of "3 in One". He's more than likely to conclude that everything else you have is equally bad. That's all wrong, but if—

3 in One

pleases, as it must, isn't he likely to come back not only for more oil, but for other things? Think it over. Write your jobber for large and small size bottles.

G. W. COLE COMPANY, COR. BROADWAY AND LIBERTY STREET, **NEW YORK CITY.**

The

Uncle Sam Damper

IS THE Best and Most Profit Bringing Damper

Plate stamped from nickeled steel, corrugated and looped, to add strength and to prevent warping. Handle rigidly clamped to stem, which is sharply pointed and can be easily put into pipe.

SEE OUR CATALOG.

Sayre Stamping Co., Sayre, Pa.

Just a few of our

Stove Appurtenances

We manufacture a great variety of them. Find out what they are.

The Fanner Mfg. Co.

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YANKEE ALL STEEL DAMPER CLIP

WE CLAIM BEST SHEET STEEL DAMPER MADE. WE WILL SEND SAMPLE FREE TO DOUBTERS. CHEAPEST DAMPER MADE. BEST AND EASIEST TO GET IN OR OUT.

We guarantee our prices against any sheet iron damper that in any way compares.

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VICTOR

Means much, at a time when qualities are exceptional and when competition is most keen, but our

COAL HOD

Is winner by a big margin over a large field and undeniably is

FAR SUPERIOR

In every respect to any other obtainable. We make "Victor Water Pails" and "Wash Tubs" also. Our success is the foundation for yours.

VICTOR STAMPING CO., Broadway, Loveland, Ohio

If you insist on having

PARKERSBURG BLUE

you will get the best blued sheet on the market.

ACME POLISHED

Is of superior excellence for high-class stove and range work.

Send for Samples and Prices.

THE PARKERSBURG IRON AND STEEL COMPANY

PARKERSBURG, WEST VIRGINIA

YALE

Russia finish, pat. lock

STOVE PIPE.

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY
HEMP & CO.
2nd & Chouteau Ave.
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In the event your jobber does not handle this pipe send your inquiries to us

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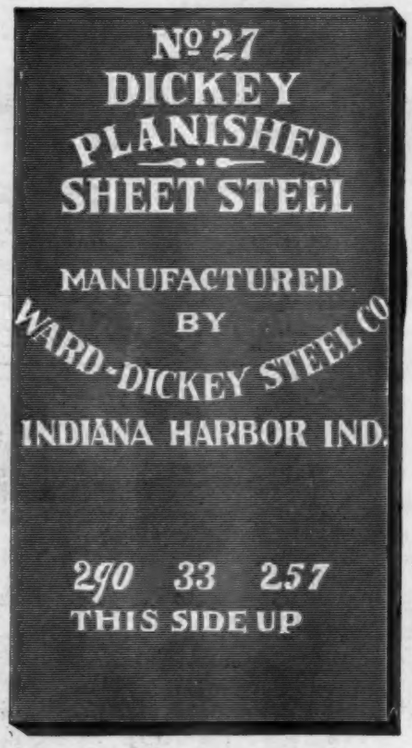
Writes:

"Allow me to express my opinion of THE AMERICAN ARTISAN.

I can honestly say that is the best paper printed on the subject.

I highly recommend it to all interested in general tinsmithing."



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For Stoves, Ranges, Stove Pipe, Elbows, Etc.

Soft — Tough — NEVER Breaks.

Will take long and high heats and hold its color. Gauges No. 18 to 28.

Send for Price List.

Manufactured by

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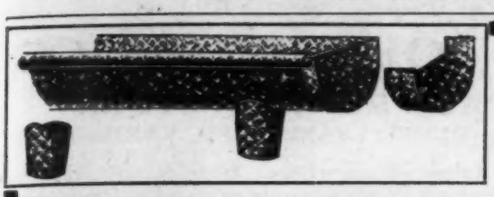

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Eaves Trough, Conductor, End Pieces and Outlets, Etc., Etc., in Large Quantities.

High Grade Materials, First-class Workmanship. Large Stocks for Immediate Shipments

Buy of the Big Manufacturer.

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ALL STYLES of CORRUGATED ROOFINGS and SIDINGS

Black and Galvanized Sheet Iron or Steel

Send Us All Your Inquiries — **Write for Catalog "D"**

THE NILES CORRUGATING CO.

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Our Specialty
INSTANT SHIPMENTS

We Have Our Own
Sheet Mills and Galvanizing Plant

PLECKER'S CORRUGATED EXPANDING CONDUCTORS.

Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of Ice

CLARK, QUIEN & MORSE, Peoria, Ill.

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Satisfactory Inducements,
Favorable Freight Rates,
Good Labor Conditions,
Healthful Communities,

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"There is no doubt that THE AMERICAN ARTISAN is a remarkable paper for the hardware trade; I cannot get along without it."

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The LOCK-JOINT CEILING is the most practical construction because it is the most easily erected. Makes a big saving in labor, and no dust or smoke stains will collect on the ceiling, being "Absolutely Dust-Proof. :: Ask for catalogue D.

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Imitations Are Recommendations

We make the one-piece miter that others are trying to imitate. Made of special galvanized stock, true to size, shape and in all styles, single and double bead, inside or outside turn. No obstruction in slip joint.

Write for information.

Get the original.

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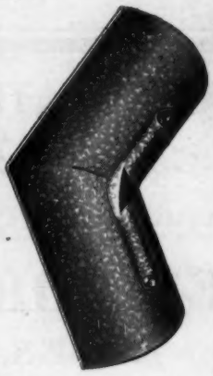
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The "Gem" Asbestos Stove Mit is a recognized household necessity. It readily retails at 10 or 15 cents or will make a good advertisement if given away with your name printed on it. The "Gem" Mit is absolutely fireproof and fits either hand. Every housekeeper wants one.

We have a large surplus stock which must be closed out at once and offer them at a special net price of $5.75 per gross or 75 cents per dozen in less quantities. F. O. B. nearest branch.

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Manufacturers of Asbestos and Magnesia Products, Electrical Insulating Materials, "Noark" Fuse Devices, Electrical Railway Supplies, Etc.

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Time was when Tinners didn't get anything but plain tin roof work—now all up-to-date Tinners are finding it profitable to handle Cortwright Metal Shingles

made by

CORTRIGHT METAL ROOFING CO., Philadelphia and Chicago

ROOFING SLATE

We operate our own quarries, manufacture and sell all grades of Slate, Roofers' Supplies, Tools, Cement, Nails, Felt. Write for delivered prices.

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Monarch Roofings

assure to dealers
Liberal Profits,
Enhanced Reputation,
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and to consumer
Quality, Durability,
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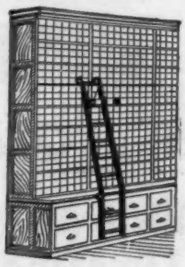

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Are made to fit all kinds of high shelvings, and are guaranteed to be satisfactory in every respect

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St. Louis World's Fair

Send for Catalog and Prices

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146-148 E. 8th Street
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Class C Punch

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Producing Want Ads.

To THE AMERICAN ARTISAN:

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R. H. SUETTINGER.

Two Rivers, Wisconsin, March 29, 1906.

Niagara Crimper and Beader

TOOLS for SHEET METALS

INCLUDING

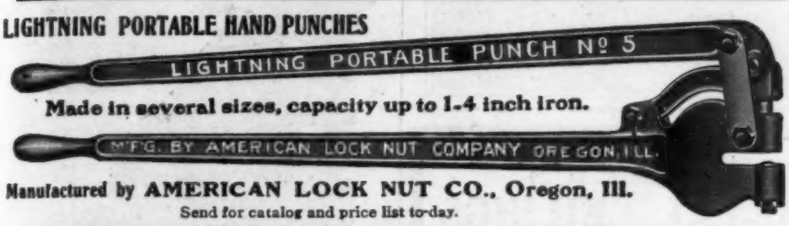
Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies, Can-Making Machinery

MADE BY

Niagara Machine & Tool Works,

BUFFALO, N. Y.

LIGHTNING PORTABLE HAND PUNCHES

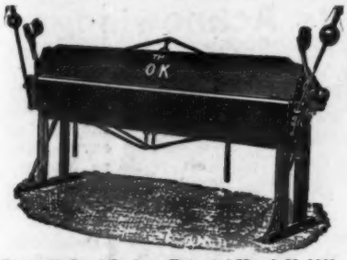


Made in several sizes, capacity up to 1-4 inch iron.

Manufactured by **AMERICAN LOCK NUT CO., Oregon, Ill.**

Send for catalog and price list to-day.

MEDAL AWARDED, WORLD'S FAIR, ST. LOUIS



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Will not warp like wood.

DREIS & KRUMP, Mfrs., 3214 S. Halsted St., Chicago

Thou Shalt Not Steal!

And yet this seams to be an age of STEAL and STEEL; we also have done some STEELING and now have this No. 10 FURNACE TANK drawn out of one piece of No. 21 STEEL and then galvanized; which makes it strong and lasting.

Noiseless No Odor No Smoke

More Heat with Less Fuel
Greatest Range of Heating
3-12 lb. Coppers Indoors or on a Roof

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Sheet Metal Ornaments and Statuary

Detail Work a Specialty. Ask for Catalogue

1227 Manchester Ave., ST. LOUIS, MO.

Walters Metal Shingles and Tile
Will last as long as the building they cover.
Rain, Rust and Fire Proof.
Write for catalog, samples and prices.

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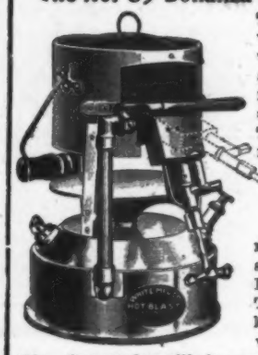
Inclosed please find $2.00 for another year's subscription to the AMERICAN ARTISAN, as I find it impossible to get along without your valuable paper. Kindly send me also one of your Hot Water Manuals, and oblige,

Yours respectfully,
BERT TANDLER.

Hottest On Earth.
The No. 39 Bonanza Furnace



That is what we give you when buying a No. 39 Furnace for all around work. The tank is made of seamless drawn brass. We make many styles of Furnaces and Torches for kerosene as well as gasoline. Our catalog will give you full particulars. Order through any jobber, or send us $4.50; we will ship direct.

THE TURNER BRASS WORKS,
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No. 32 Torch. $3.25 Net.

Better Examine
OUR LINE

of fire pots and torches. You will find in it just what you need for the purpose. **The No. 32 Torch is without question the best quart combination TORCH ever made,** and we can prove it even if Bill Jones is dead. Try one. You run no risk as our guarantee "Your money back if you are not pleased," protects you. Jobbers supply at factory price, or we will ship direct if cash accompanies your order. Our catalogue is free. Ask for it.

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ONE who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—*Advertising Experience.*

The Harrington & King Perforating Co.

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OF EVERY DESCRIPTION, FOR ALL PURPOSES AND FOR SCREENS OF ALL KINDS

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MAIN OFFICE & WORKS CHICAGO.

ELLER'S METAL CEILINGS

Easy to Erect

Are made in many styles of architecture, and by using them, you are enabled to make a pleasing and elaborate decoration at moderate cost. We make plans and estimates free. One coat of our "Meto" paste paint *rolled* on before shipping.

Send us your inquiry

THE ELLER MANUFACTURING CO., - Canton, Ohio

Successors to J. H. ELLER & CO.

The manufacturers and quick shippers of Cornice Ornamentation, Cornices, Finials, Side-Lock Metal Shingles, Roofing, Eaves Trough, Pipe, Gutter, Dry Measures and Oil Cans (all sizes). ::: J. H. E's, brands of Tin are the best.

THE CANTON MANUFACTURING CO.

CORNICE, SKYLIGHTS, EAVESTROUGH, CONDUCTOR PIPE, VENTILATORS, FINIALS ETC.

TIN PLATE "THAT LASTS"

CANTON, OHIO.

H. WEISS & CO., 20 CLIFF ST., NEW YORK

Skylight Gearing and Chain Lifts

Tinsmiths' and Plumbers' Tools. Cornice Makers' Tools. Coppersmiths' Tools. Pipe Threading Machines.

Second-Hand Goods bought, sold and exchanged.

Punch, Shear and Bender Combined for ¼" Iron

It Is Acknowledged

PRICE

3½-in.	$ 50
4 "	60
4½ "	65
5 "	75
6 "	1 00

by the best workmen to be the only way to close the end of an eave trough, as corrugations are Proof Against Frost.

Order a set of tools today from any jobber or tinner's supply house.

G. E. BISHOP, HARDWARE DOWAGIAC, - MICH.

60 YEARS' EXPERIENCE

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MUNN & Co. 361 Broadway, New York

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The reason for the supremacy of the Remington Typewriter is its

Persistent Superiority

emphasized again and again in every new model since the invention of the writing machine.

New Models Now Ready

Send for descriptive catalogue.

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154 Wabash Ave., Chicago.

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Metal Shingles, Metal Windows, Cornices, Skylights, Roof Gutters, Corrugated Iron and Steel Roofing, Steel Imitation Brick and Stone Siding

Write for Metal Ceiling Catalog "J," and special proposition to agents.
Everything in Sheet Metal Building Material illustrated and described in our large 132-page Catalog "R," sent free upon request.

The Edwards Manufacturing Co.
"THE SHEET METAL FOLKS"
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Skylight Lift

A new device whereby a skylight can be raised or lowered as easily as a weighted window. Constructed of steel and malleable iron; has a movable slide-holder to adjust itself, and can be opened to any distance desired. Always locks automatically, open or shut. Can be applied to either hipped or flat skylights easily and quickly.

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"Canton" MetalCeilings are sold on their merits. They have both style and construction.

Construction is the biggest item in the cost of erection. In the ceiling business, your profit depends upon the cost of erection. We have just completed a job of 44 squares at a cost of 70 cents per square. Sounds pretty good, don't it?

Place a trial order with us. We want your business. Art Book "H" is free. Get one.

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The Canton Steel Roofing Co.

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DROP A POSTAL FOR New Cat!!

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SIDINGS
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SKYLIGHTS!

QUICK SHIPMENTS!!!

La Crosse Steel Roofing & Corg. Co., La Crosse, Wis.

Our Stock Comprises
CUT COPPER NAILS
Regular Cut
Slating Sheathing
Stem Clout
Finishing Oval Head Trunk
Also
YELLOW METAL NAILS
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STAR BRAND
TRADE MARK STAR BRAND
COPPER NAILS
TRADE MARK STAR BRAND
U. T. HUNGERFORD BRASS & COPPER COMPANY
497-505 PEARL ST. NEW YORK 37-43 PARK ST.

Our Stock Comprises
COPPER WIRE NAILS
Slating
Shingle
Boat
Purlin
Also
Oval and Flat Head
COPPER TACKS

STOCK SHEET SHOWING FULL ASSORTMENT ON HAND. SENT ON REQUEST.

Hard Facts
ABOUT
Garry Iron and Steel

Why is it that the GARRY Sales lead all competitors ?

How are we able to ship more promptly than any Roofing and Pipe manufacturer in the United States ?

Because we are specialists in these things.

All of our long experience was gained in making them and our immense stock, always on hand, is made up of Corrugated Iron and Steel Eaves Troughs, Conductor Pipes and Gutters, also Tin and Terne Plates; Roof Paints too.

GARRY IRON & STEEL CO., Cleveland, O.

$60
GOES LIKE SIXTY
SELLS LIKE SIXTY
SELLS FOR SIXTY
GASOLINE ENGINES
for Pumping, Cream Separator, Churn, Washing Machine, Ice Cream Freezer, etc.
Send for catalogue

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Salesmen Wanted
To Sell the IDEAL EPWORTH ACETYLENE GENERATOR,
The Best Lighting System in the Market

The "Ideal" is **Ideal** in construction and operation; **Ideal** in light producing power; **Ideal** in giving forth a steady, safe, bright light; **Ideal** for lighting dwellings, stores, hotels, churches, public buildings, and **Ideal** in lighting towns.

Acetylene Light is the safest, best, cheapest, brightest, finest light in the world, when produced in the **Ideal Epworth Acetylene Generators. Satisfaction Guaranteed.**

Write for circulars and terms. Address

IDEAL EPWORTH ACETYLENE CO.
Waterloo, Iowa. Johnstown, Pa.

Large Stocks in Chicago Kansas City Denver
Trade Mark M&E
Prompt Shipments Assured.
HIGH GRADE ROOFING PLATES
"MERCHANTS OLD METHOD"
AND OTHER BRANDS
HIGH GRADE BRIGHT TIN PLATE
Galvanized and Black Steel Sheets.
Sheet Copper. Sheet Zinc. Solder.
GET OUR PRICES
PHILADELPHIA
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Merchant & Evans Co.
Successor to MERCHANT & CO., Inc.
Manufacturers of The Star Ventilator, Metal "Spanish" Tiles, Gothic Shingles.

BURTON'S
Eastlake Shingles

Have been on buildings for 17 years, in good condition yet. Better than any metal, slate or wood roofing sold. Write for catalog.

The W. J. Burton Co.
DETROIT, MICH.

J. M. JACKSON
Omaha, Nebraska, writes
"I am very much pleased with your publication and look forward to its visits with pleasure. The advertisements and all reading matter receive my attention."

Saves Money By Reducing Insurance Rates

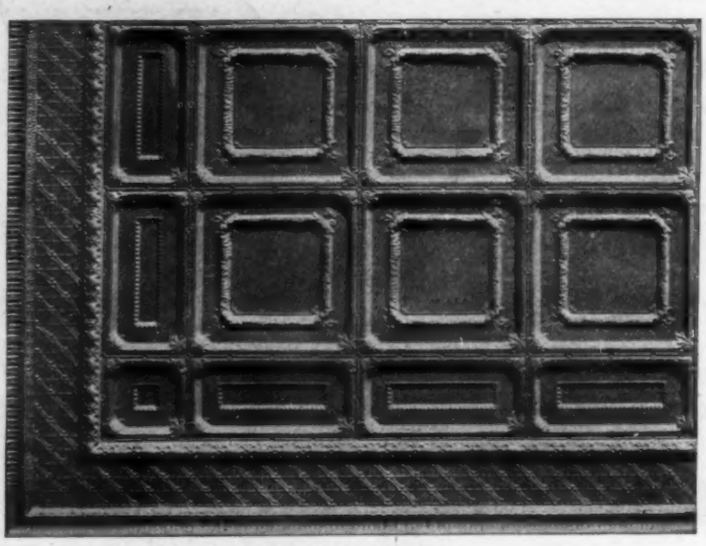
WHEELING CEILINGS MADE OF STEEL

Just the Thing for Your Store Room —— Fire Proof —— Ornamental

Steel Ceilings are approved by underwriters and the public authorities. Insurance rates are largely determined by the character of construction.

Send plan or sketch showing detailed measurements and we will be pleased to furnish Drawings and Estimates for rooms of any size or shape.

Greater variety than any three other manufacturers.



CEILING DESIGN No. 1252.

Wheeling Corrugating Co.

Wheeling, W. Va.

Main Office and Works,
WHEELING, W. VA.

Branch Offices and Warehouses:

New York City - - 47-51 Cliff Street.
Chicago - - - 23-27 N. Clinton Street.
St. Louis - 112, 114, 116 South Eighth Street.
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Boston, Mass. - 132 and 134 Pearl Street.
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METAL CEILING SELLING AND ERECTION

Metal Ceiling selling and erection is a profitable business from every standpoint. We furnish the ceilings ready to erect, with drawings showing the location of each piece. Requires no heavy investment and always bring good returns. Berger "Classik" steel ceilings are the most popular and the best sellers. Write for catalogue and prices to dealers. The winter season is a profitable time to handle steel ceilings.

Black Steel Sheets
GalvanizedSteel Sheets
Eaves Trough and Hangers
Conductor Pipe and Fittings
Cornices
Skylights

Rock Faced Stone
Metal Shingles
Spanish Tile Roofing
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Fireproofing Material
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Corrugated Iron Doors and Shutters
Architectural Sheet Metal work of all kinds
Stove Pipe Iron

Try our Guaranteed Re-Hammered Charcoal Iron Tin Plate and Black and Galvanized Sheets.

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Art. 127-04

Flat Crimp Conductor Elbows

(PATENTED)

and the name of

F. Dieckmann

Are synonymous with up-to-date dealers. Why—because the Dieckmann is the only conductor elbow made of one piece of metal. Not 57 varieties, but 1,225 in all styles and angles.

FERDINAND DIECKMANN

STATION B. **CINCINNATI, OHIO**

Patent Chimney Ventilators

A SURE CURE FOR A SMOKY CHIMNEY OR A SLUGGISH-WORKING VENTILATING SHAFT

Ventilator complete, attached to stack, and cast iron base.

Chimney Ventilator Frame, as sent from works, unless ordered complete, made to fit into 6, 7, 8, 9, 10 and 12 inch pipe.

We take pleasure in presenting our Patent Chimney Ventilator, or Foul Air Shaft Ventilator. It is no experiment, from the fact that it has held the lead in the market for a number of years. The Hood of the Ventilator revolves with every slight change in the wind, thereby always holding the back or crown of the Hood against the wind. Combined with its peculiar construction an upward suction is formed on top of the chimney. The wind or rain can never blow down into the chimney, hence the smoke is always prevented from doing so. It is an indispensable article when it is desired to ventilate a building through a cold ventilating or foul air shaft, as it is always sure to create a draft upward in the shaft. Special attention of furnace men is called to above ventilator.

We can furnish cast iron bases in sizes 13x17, 17x17, 13x21 and 17x21.

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The Hess-Snyder Co.

Manufacturers

MASSILLON, OHIO

WILSON & LESLIE, SOUTH BEND, IND.,

WRITE:

"We are surprised at the great circulation of THE AMERICAN ARTISAN as we have received letters from a great many different states."

JUST A FEW OF OUR MANY
SPECIALTIES

New Price List Just Issued

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TO PROVE that Daus' "Tip Top" is the best and simplest device for making 100 Copies from pen-written and 50 Copies from typewritten original, we will ship complete duplicator, cap size, without deposit, on ten (10) days' trial.
Price $7.50 less trade discount of 33⅓% or **$5 net**

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If You Want Quality

IN plumbago get a sample of our No. 702 Pure Ceylon Plumbago, test it—we don't care how severe the test is—it will do all we claim, and more.

SUCCESSFUL foundrymen everywhere use our No. 702. Are you successful?

May we send you a sample?

THE S. OBERMAYER CO.
CINCINNATI
CHICAGO PITTSBURG
"The House of Quality and Service."

The Briscoe Line

(Guaranteed)

O-RIB-O HEAVY GALVANIZED WARE, (Labeled and Guaranteed)
O-RIB-O HOT BLAST AND AIR-TIGHT STOVES, (Guaranteed)
BRISCOE JAPONAY ENAMELED WARE, 2 COAT, (Labeled and Guaranteed)
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BRISCOE TINWARE, (Labeled and Guaranteed)
BRISCOE LAWN MOWERS, (Guaranteed)
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EXCLUSIVE AGENCY FOR YOUR TOWN
The most "worth while" Proposition ever offered
OUR JANUARY CATALOG READY SOON

REDUCTIONS IN PRICES
Write to-day for Catalog and Agency

Briscoe Mfg. Co.

DETROIT, MICH.

THE ROSELAND GOODS

Will not remain long on your shelves. The last piece will bring as much as the first, because they are all good ones. Not a cull in them. If your jobber does not carry these goods, write us and we will send you circulars and advise who carries our line. —*We Manufacture*—

The New Standard Flour Sifter, Roseland Bread Toasters, Rex Fruit and Vegetable Strainers, Queen Jelly Strainers, Tea and Coffee Strainers, Flue Stops, Jacket Cans, and a variety of Tin Specialties.

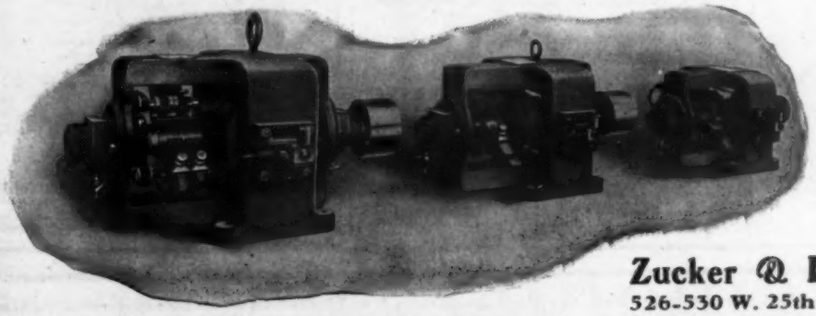
ROSELAND CAN & SPECIALTY CO., ROCKFORD, ILL., U. S. A.

It is the quality of the material put in the wash boiler that sells it, not the paper it is wrapped in, ask your jobber or write direct to

P. MOSHEIK
421 S. Halsted St., Chicago, Ill.

Manufacturer of All Kinds of Wash Boilers,
And obtain his prices on these and the 48 other kinds of boilers he makes.

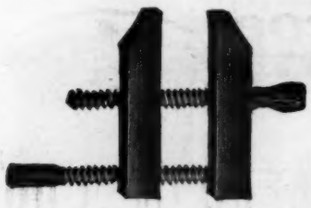
ELECTRO PLATING OUTFITS



Low Voltage Dynamos and Direct Connected Sets
ALL SIZES
We manufacture everything required for polishing and plating.

Send for Catalogue

Zucker & Levett & Loeb Co.
526-530 W. 25th Street, NEW YORK, U.S.A.



The HAND SCREW with THE SAW-CUT THREADS

IN HAND SCREWS IT PAYS TO BUY THE BEST

The Grand Rapids Hand Screw is as good as can be made. All second growth Hickory Spindles, and the best Maple Jaws. Write for catalog and prices.

GRAND RAPIDS HAND SCREW CO.
160 South Ionia Street GRAND RAPIDS, MICH.

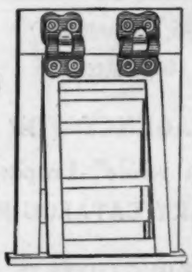
GOSSETT

DETACHABLE SUSPENSION

HINGES

(FOR FULL LENGTH SCREENS.)

SELL.



WHY?

Better send for a free sample pair and give them an actual test—there's nothing so convincing. They're made of stamped steel — japanned — every pair perfect.

SOLD BY MANY HARDWARE JOBBERS.

F. D. KEES MFG. CO.
(DESK A.) BEATRICE, NEBR.

The Best Floor Spring Hinges are the best for you to sell. Cheap Hinges always come home to roost.

MATCHLESS Ball-Bearing Floor Spring Hinges are made to sell—*and to stay sold.*

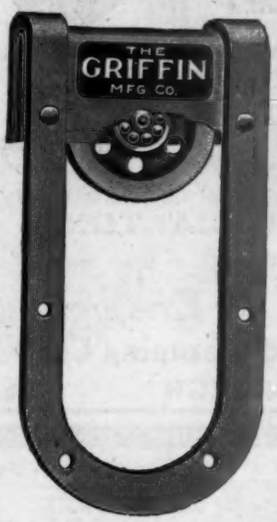
The Ball-Bearings insure easy, noiseless motion,—the Spring gives the power, and never wears out or break

Don't hesitate to send for our prices!

Address Dept. A.

LAWSON MFG. CO. 40 Dearborn St., CHICAGO 101 Reade St., NEW YORK

GRIFFIN'S IMPROVED STEEL DOOR HANGERS



Hard Steel Axles

Roller Bearings

Entirely Anti-Friction

Frames Wrought Steel

Wheels Semi-Steel

Strap and T Hinges
Folding Shelf Brackets
Barn Door Track
Wrought Steel Butts

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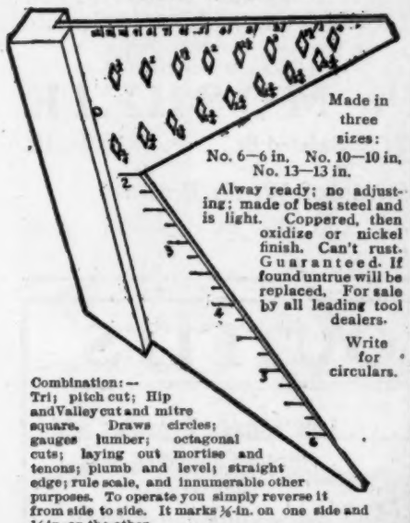
GRIFFIN MFG. CO.
ERIE, PA.

The New Universal Square

"NEW STYLE"



Made in three sizes: No. 6—6 in. No. 10—10 in. No. 13—13 in.

Alway ready; no adjusting; made of best steel and is light. Coppered, then oxidize or nickel finish. Can't rust. Guaranteed. If found untrue will be replaced. For sale by all leading tool dealers.

Write for circulars.

Combination:—Tri; pitch cut; Hip and Valley cut and mitre square. Draws circles; gauges lumber; octagonal cuts; laying out mortise and tenons; plumb and level; straight edge; rule scale, and innumerable other purposes. To operate you simply reverse it from side to side. It marks ⅛-in. on one side and ¼-in. on the other.

The Duby & Shinn Mfg. Co., Inc.
Office and Works: 34 E. 29th St.
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BALL-BEARING

"GRAND RAPIDS"

ALL STEEL SASH PULLEYS

are the greatest selling goods on the market anywhere. We are the largest makers of sash pulleys in the world. The "GRAND RAPIDS" are the standard sash pulleys. We make nothing but sash pulleys, so, naturally our goods excel.

We own twenty-three patents on sash pulleys, therefore our goods are exclusive. Nearly all jobbers sell the "GRAND RAPIDS." Write us for free samples, catalogue and discount.

THE GRAND RAPIDS HARDWARE COMPANY,
Manufacturers
61 Pearl Street, GRAND RAPIDS, MICH.

Yale Locks

The need of locks may not be a credit to civilization but a Yale lock is a credit to him who uses it and to him *who sells it.*

The genuine Yale lock always has the trade mark

YALE

on the cylinder as shown above. That name is a guarantee of quality in material and workmanship as well as of the latest ideas in lock construction.

Hardware dealers should write for our No. 18 Catalog which lists our more active goods.

Yale & Towne Mfg. Co.
9 Murray St., New York
Chicago Office: 90 Lake Street

H. A. Goold, Hiawatha, Kans., writes April 3, 1904: "You may discontinue my ad, as I have had so many answers that I was surprised. Your paper is well worth the subscription price, and I cannot see how any tinner wants to get along without it."

Blick No. 3 The Best Box
FOR RURAL FREE DELIVERY

$5.88 Per Dozen

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x 19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO.
INDIANAPOLIS, IND.

Planet R. F. D. Mail Box

with patented Automatic Flag Signal. Made of 20 gauge galvanized steel. Each box warranted. $5.40 per dozen.

Sanitary Adjustable Strainer Pail

IX Charcoal Tin

12 qt. $4.50
14 qt. 5.00

Jobbers Sell at Factory Prices. Ask Them.

SMITH BROS. MFG. CO.
246-254 E. Kinzie St., CHICAGO, ILL.
Also at INDIANAPOLIS, IND.

Clipper Lawn Mower Co., Dixon, Ill.

Manufacturers of Hand and Pony Mowers, also Marine Gasoline Engines from 2 to 8 horse power.

THE MOWER
That will kill all the weeds in your lawns.

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. The Clipper will do it. If you wish Clippers, send in your orders.

Advertising is the root of all money.

Great Assortment of

Ears, Knobs and Handles

Leading Supply House in America for this class of goods.
Ask for samples, catalog and prices.

BERGER BROS. CO., Manufacturers
Office and Stores 237 Arch Street. Warerooms: 100-02-04 Bread Street. Factory: 3114-16-18-20 N. 17th Street.
PHILADELPHIA.

Make More Money

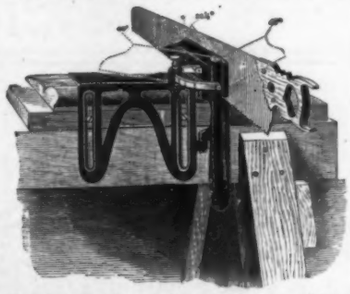
Rural Routes are going in all around you. New boxes are needed on old routes. You should get this business. You *can* get it with

Bates-Hawley Patent **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the best advertised and the easiest sold.

SIGNAL MAIL BOX CO.
106, Benton St., JOLIET, ILLINOIS.

ALWAYS READY FOR USE.
No. 159. MITRE BOX, SEAVEY'S IMPROVED



will cut any angle, any place at any time. Weighs only 2 pounds and retails for only $2.00. Ask your dealer or jobber for Seavey Mitre Boxes, or write us for Carpenters Green Book.

SMITH & HEMENWAY CO., 296 Broadway, N.Y.

REMOVAL NOTICE

On and after May 1st, we will remove to 108 and 110 Duane St., third building west side of Broadway, where larger and more commodious quarters have been secured, for the proper conduct of our large increase in business.

SMITH & HEMENWAY CO.
After May 1st, 108-110 Duane St.
NEW YORK CITY.

Vollkommer & Co.

Engineers and Contractors
1112 Empire Bldg. PITTSBURG, PA.

We Design and Completely Equip **Enameling Plants**
for Stamped Ware, Sign Work and Cast Iron Articles.

Stamping Plants

YOU CAN GET THE PAINT BUSINESS OF YOUR TOWN By Selling

ESTABLISHED 1851. THE H&M PAINTS TRADE MARK ADOPTED 1905.

Every Can Contains Satisfaction for Your Customers and Profit for You.
Exclusive Agency Proposition and complete line of color cards sent on request, if we have no agency in your city. Write——NOW.

Heath & Milligan Mfg Co

Paint and Color Makers, CHICAGO, U. S. A.

"Put a Little SUNSHINE in Your Home."

THE 20TH CENTURY MAIL BOX

Constructed of No. 20 **Galvanized Steel** and **will not rust or break.**

Is fitted with spring lock and two keys; also heavy glass panel and brass clip within for owner's name. Two springs outside to hold papers. Slot has spring-hinged cover, making it **absolutely rain-proof.** Painted with best aluminum bronze, like U. S. mail boxes. Size, inside 10 x 5½ x 2¾ inches.

Used for free delivery in cities only.

HEISE & BRAUER
63 Union Park Ct., Chicago, Ill.

Do you want to increase your business on White Lead?

Do you want to sell a White Lead which is not advertised by any Catalogue or Mail Order House?

Do you want to sell a White Lead that is BETTER than Strictly Pure White Lead?

Do you want to sell a White Lead which is put up in Steel Kegs?

Do you want to be the only dealer in your city to handle an article of this kind?

If so, write at once to

Enterprise Paint Mfg. Co.
Van Buren and Peoria Streets, Chicago

HOTCHKISS CLIPPERS

Standard Quality and Workmanship Guaranteed. Prompt Shipment. Prices Right.

Simple in Design. Elegant in Finish.

No. 350 B. B.

Send for Descriptive Catalogue and Prices.

EDWARD S. HOTCHKISS,
IRANISTAN AVE., BRIDGEPORT, CONN.

LEAD PUT UP IN

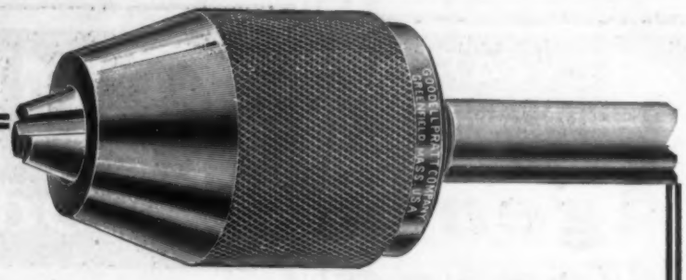
AMERICAN STEEL LEAD KEGS

Never Dries Out or Loses Its Softness.

Order Your Lead in Them.

American Can Company
New York Chicago San Francisco

L. W. Richards, Memphis, Tenn., writes: "Inclosed please find check for $2 for which kindly send me the American Artisan for one year and your House Warming Manual as advertised. I consider the American Artisan and Hardware Record one of the most valuable books ever published for my line of business and I wish you success." 11-05



Drill Chucks that Hold

Without slipping up to their extreme capacity.

Stop and consider that no time is lost looking for a wrench or key before you can tighten or loosen this chuck. Just a twist of the wrist is all that is needed for they are tightened by hand.

For further particulars send for catalog.

GOODELL-PRATT COMPANY,

Greenfield, Mass., U. S. A.

Energy is Strength
Energy is Hope
Energy is Life

Put it in Your Advertising

Persistency is Might
Persistency is Progress
Persistency is Success

Add it to Your Advertising

WANT TO MAKE A LARGER PROFIT ON YOUR LANTERN SALES?

You can do it—with **"PRISCO"** Lanterns.

We know of many retailers who are selling **"PRISCO"** Lanterns for 10c to 25c more than other lanterns,—and this is all extra profit for the Retailer!

Just stand a **"PRISCO"** beside any other Lantern—and anyone can see the many differences—the "PRISCO" **looks** better—and **is** better.

We'll gladly tell you all about the "PRISCO" and quote prices.

The Pritchard-Strong Co.,

25 Circle Sreet, ROCHESTER, N. Y.

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To the Publishers **The American Artisan and Hardware Record**
69 Dearborn Street, CHICAGO

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

Name.....

Address..... Town..... State .....

STEWART IRON FENCE

Agents Wanted

Hardware Dealers Make Big Profits Selling Stewarts FAMOUS IRON FENCE

For Residences, Churches, School Houses, Etc.

Cemetery Lot Enclosures a Specialty

Artistic Entrance Gates

Park & Cemetery Arches

Iron Reservoir Vases, Lawn Settees, Iron Guards, Hitch Posts, Fountains, Etc.

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CINCINNATI, OHIO, U. S. A.

A Grade Better Than The Best

New Features.

Way ahead of them all.

Packed in Counter Display Boxes.

A fixed retail price.

"Pullman" Folding Coat Hangers

Prepare for the demand

Pullman Mfg. Co., Rochester, N. Y., U.S.A.

Gillette Safety Razor

NO HONING NO STROPPING

The Most Wonderful Selling Razor in the World

IT PLEASES EVERY PATRON, WHO, IN TURN, BRINGS A NEW CUSTOMER.

"THE GILLETTE" sales are permanent, it turns orders to money and profits.

"THE GILLETTE" blade is of fine, flexible, wafer steel that shaves. 20 to 40 quick and comfortable shaves from each blade.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
Quadruple gold-plated set with 12 blades,	10.00
Quadruple gold-plated set with 12 blades and monogram,	12.00
Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
Other combination sets in silver and gold up to	50.00

Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

We supply our dealers liberally with signs, booklets and hangers. Write for our uniform discounts and facts.

GILLETTE SALES COMPANY
TIMES BLDG., NEW YORK CITY

Hitch Your Whiskers to a "STAR" SAFETY RAZOR

and they are immediately and painlessly removed. No distortion of features nor wrecking of the soul marks the operation.

The 3 Star Blade

is exceedingly keen and imparts only keenness to your feelings. An acquaintance with a Star Safety Razor is never dropped.

Highest Award Wherever Exhibited:

Paris, 1900 Buffalo, 1901 St. Louis, 1904 Portland, 1905

Write for Quotations and Secure an Agency.

KAMPFE BROTHERS,

Manufacturers, 8-12 Reade Street, NEW YORK

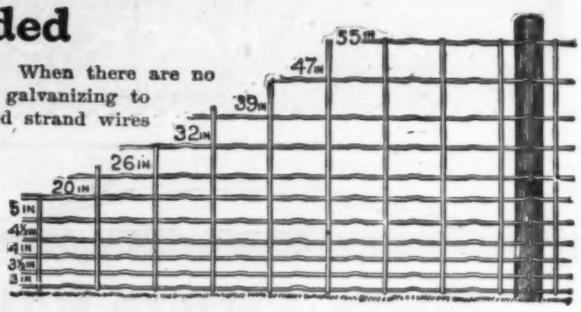
THE KLONDIKE INCUBATOR CO., Des Moines, Iowa,

Write: Please take our advertisement out of your paper for 7-foot Robinson Cornice Brake. We are getting too many answers.

"Pittsburgh Perfect" Fences

Electrically Welded

When the joints are electrically welded there are no wraps. When there are no wraps there is no chance for moisture to accumulate, for the galvanizing to crack, for the wire to be rusted. Stays cannot slip; stay and strand wires become one piece when the union is made. These fences

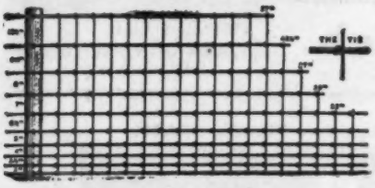


WILL LAST LONGER THAN ANY ON THE MARKET

WRITE FOR CATALOG

Pittsburgh Steel Co., Pittsburgh, Pa.

The Fence That Suits



Your Customer

Is the one for you to handle

Woven Field Fencing

Both Single and Double Strand.

JUMBO POULTRY turns everything. Lighter Poultry for less money of Various Weights.

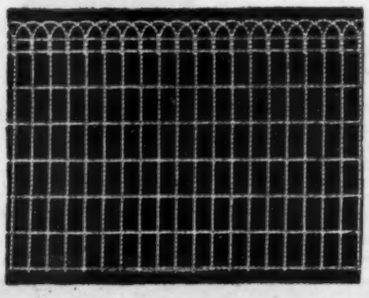
Lawn and Cemetery Fence, Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.

CEDAR RAPIDS, • IOWA

"Fences that Sell"



This is a good one; we have others. Many dealers handling. We want more.

We also manufacture Field Fence, Wire Gates.

CYCLONE FENCE CO.

Dept. 10 Waukegan, Ill.

HIGH-GRADE BUGGIES

$47.50 AND UP. Dealers Only.

Strictly First-Class Material

JAMES & MEYER BUGGY CO.

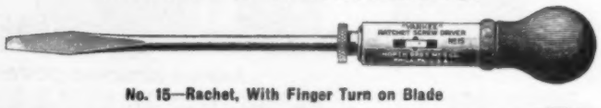
Write for Catalog and Prices. Lawrenceburg, Ind.

"Yankee" Tools

ARE THE NEWEST, CLEVEREST AND QUICKEST SELLING,

and are without equal in quality or efficiency in practical use.

No. 10 and 11—Ratchet, Right and Left Hand and Rigid



No. 15—Rachet, With Finger Turn on Blade

No. 30 and 31—Spiral Ratchet, Right and Left Hand and Rigid

No. 40-41-44—Automatic Drill

No. 50—Reciprocating Drill for Wood or Metals

Send for "Yankee" Tool Book

North Bros. Mfg. Co., Philadelphia

SPERRY'S SUGAR KETTLES

Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your jobber for them or write us.

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS **Batavia, Ill.**

We have a Hardware Delivery Wagon that you can Depend Upon.

Body 20 in. from the ground; full width; regular heighth wheels, and yet will turn short.

Easy to Load and Unload.

Durability guaranteed.
Complete catalogue on request.
Mention this paper and address in full.

SYCAMORE WAGON WORKS

109 Edwards Street SYCAMORE, ILL.

Goodell-Pratt Company
GREENFIELD, MASS. U.S.A.
HACK SAWS
FAMOUS FOR TEMPER AND CUT
HAND AND MACHINE BLADES OF ALL STANDARD LENGTHS AND WEIGHTS
Catalogue Free

Magic Pattern Rule **Will Lay Out Patterns**

for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammel. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction.

Price, complete in a nice wooden box with Chart, $4.00 net cash.

LUFKIN RULE CO., Saginaw, Mich. (Mention THE AMERICAN ARTISAN.)

No. 25 Level, with One Plumb, $20.00. **No. 25½ Level, with Two Plumbs, $24.00.**

AKRON ECLIPSE LEVEL. Per Dozen $60.00

In introducing the above new Mason's Level, we are endeavoring to meet a demand from all parts for a Plumb Rule and Level which should embody the following points: **It must be light in weight; it must be four feet long; it must have two plumbs; it must have good hand grip; it must have glasses clearly exposed; it must be firmly set, but adjustable; it must be low in price.**

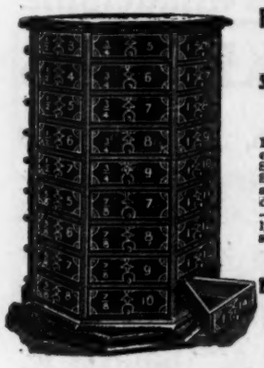
Don't you think we have met the demands? Write for discount.

THE BAKER-McMILLEN CO., Akron, Ohio, U. S. A.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS

Sold by All Hardware Dealers. **NEW BRITAIN, CONN.**



Bolt and Screw Cases

SAVE TIME and MONEY

A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact anyone who handles small articles—last indefinitely. Send for descriptive booklet.

AMERICAN BOLT & SCREW CASE CO.
Dayton, Ohio, U. S. A.

The ECLIPSE Nested Stove Pipe Thimble

BEST ON THE MARKET

PATENT PENDING

Saves 80 per cent. of room.
Is stronger than a hand made riveted thimble.
Is always ready to hook together.
Is made that the lug passes through two slots and then tied.
The lug is always on top; therefore the **LUG** is not an objection to the entering stove pipe.
It is always kept nice and clean in a box; therefore no unsightly, rusty looking thimbles to adorn the stores. Galvanized iron; 5, 6 and 7 inch.

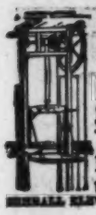
STUBER & KUCK, Manufacturers of Pieced Tinware and all Styles Flour Sifters. **Peoria, Ill.**

Watch for our next advt.

HOMESEEKERS EXCURSIONS
On FIRST and THIRD TUESDAYS in each month to **VIRGINIA**
Via NORFOLK & WESTERN RAILWAY
For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address
ALLEN HULL, D. P. Agt., Columbus, Ohio

Thompson Bros., Muscatine, Ia.
Write: "Please stop our ad. for Tinner. The first issue brought results."

STERLING HACK SAWS
SELL AND STAY SOLD
ARE
SATISFACTORY TO USERS
ARE
SOLD AT ONE FIXED PRICE
ARE
SOLD THROUGH THE TRADE ONLY.
IF YOU WANT RETURNS FOR YOUR TIME AND TROUBLE SELL STERLING BLADES.
DIAMOND SAW & STAMPING WORKS. BUFFALO, N.Y. U.S.A.



ELEVATORS

Improved Quick and Easy Rising Steam, Electric and Hand Power

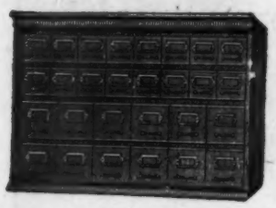
Send for circulars

KIMBALL BROS. CO.

1031 Ninth St., COUNCIL BLUFFS, IA.

KIMBALL ELEVATOR CO., 129 Vincent St., CLEVELAND, O.

Steel Hardware Shelf Boxes



Screw Cases, Etc.

Send for Circulars.

HELLER CO., Montclair, N. J.
or GEO. W. HEILAND, 213 Washington St., Chicago, Ill

It Will Pay You

to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

Address

DANIEL STERN

69 Dearborn St., - CHICAGO

No. 602 "Napanoch" Pocket Knife Tool Kit

Made in America. Price, $2.25 Each.

With a more or less frequency almost every one has use for a **Knife, Reamer, File, Saw, Chisel** or **Screw Driver,** and this outfit is practical, yet so small, being contained in a **Leather Pocket Book** 4¼x3¼ inches, that the owner, by carrying it in his pocket, always has it at hand for immediate use, whether **Camping, Boating, Teaming, Driving,** in the **Shop, Factory, Office, Store, Warehouse, Automobile,** on the **Farm, Bicycle,** or around the **Home.**

Any **Tool** firmly attached or detached to the **Pocket Knife** in a second.

Mr. Dealer, send us a card for illustrated circular and trade prices.

U. J. ULERY CO. 7C Warren St., New York, N. Y.

WE MANUFACTURE

LIGHTNING CONDUCTORS

WITH

Automatic Water Supply

FOR THE

GROUND RODS

(PATENTED APRIL 30, 1895)

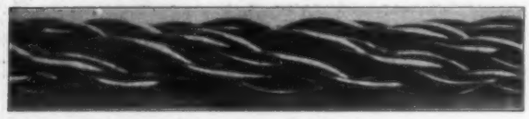
The ground rod is the most important part of the rod. Sometimes the ground is perfectly dry, and the deeper the harder the ground is in some localities. By our invention you can be sure of two feet or more of water all the time in the rod and moist earth around the point in the ground. It is made of ⅛-inch pure copper tube. We want to furnish it to a responsible dealer in every town or city in the United States.

We manufacture Weather Vanes of all kinds. They can be used with or without lightning rods.

Write for Catalogue **40 Pages Free**

The Security Lightning Rod Co.
BURLINGTON, WIS.

LIGHTNING RODS ARE A PROTECTION



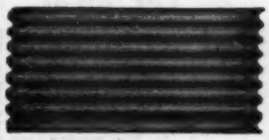
when you use our

Pu per Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county, send for catalog and prices to

MAHER & SON, Preston, Ia. **The firm that cut down the price of Lightning Rods.**



Write us for Catalogue and Low Prices on BEST

Steel Roofing, Corrugated Iron, Etc.

We are large manufacturers of these goods, and can save you money.

SYKES STEEL ROOFING COMPANY
CHICAGO, ILL., and NILES, OHIO

Eagle Mop Wringers and Ohio Detachable Mop Heads and Handles

Meet every service demanded of them. WHY?
Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

Eagle Cooperage Works, Sole Mfrs., **Circleville, O.**

BE SURE TO

Order Your Corn-Cutters Now

The Corn-Cutter is one tool which the Farmer demands must be absolutely perfect.

No awkward, dull-easy, break-easy hooks or knives for him.

Sell him the best Corn Hook or Knife that brains, energy and money can produce—ONE OF OUR MAKE—if you want his perpetual good will and patronage.

It's time you were ordering; write us for illustrated folder; ask your jobber for one of these brands.

"Withington & Cooley Mfg. Co., Jackson, Mich."
"Iowa Farming Tool Co., Fort Madison, Iowa."

American Fork & Hoe Co.,
CLEVELAND, O.

Trade Mark Stamped on the Handle.

21 Years Ago

We made the First STEEL SPIDERS and our trade mark

"Never-Break"

has become the general name for Steel Spiders. Beware of Unbranded and Spurious Imitations.

Ask any Jobber. Write for our catalogue of STEEL SEAMLESS COOKING UTENSILS.

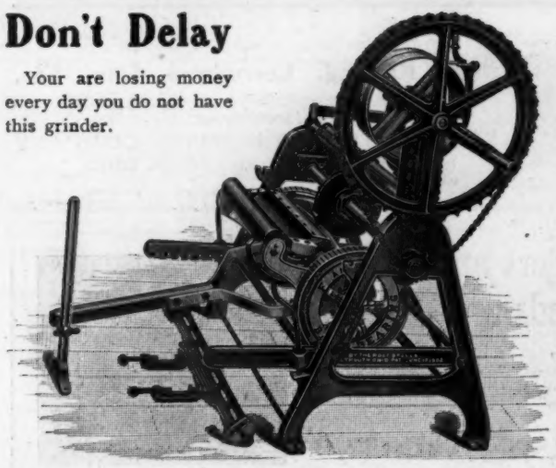
The Avery Stamping Co.,
Cleveland, Ohio
Mfrs. "Never-Break" Goods.

Ullery & Jones,
Gibson City, Illinois, Write:

You will please take out our want ad. Our man has secured a good position, and, from the amount of letters we received from all over the United States, he could have got all kinds of jobs. Many thanks for the ad. We think your paper all right.

Don't Delay

Your are losing money every day you do not have this grinder.



The Ideal Lawnmower Grinder

By its use anyone can sharpen a Lawnmower accurately in fifteen minutes. Takes all unevenness out of cutting parts, gives a perfect clearance, and is a pleasure to operate. Nothing like it on the market, and a big moneymaker.

1906 Model now ready for both hand or power use. Send for circular giving full description and price. Don't delay. Write to-day.

The Root Bros. Co.
Plymouth, Ohio

The Grinding of Lawn Mowers is a Trick!

It's easy to do with one of my grinders.

If you have power, write me.

C. R. ZACHARIAS,
ASBURY PARK, N. J.

AGATE NICKEL-STEEL WARE

AGATE L&G Mfg. Co. NICKEL-STEEL-WARE

Is absolutely free from poisonous substance, is made by careful, experienced men, by a company founded in 1850. The first enameled ware and blue and white ware made in this country was made in our mills. We know how to make enameled ware safe and durable. We make it safe and durable because we are proud of the trade mark. Look for the blue label.

Lalance & Grosjean Mfg. Co.

CHICAGO, NEW YORK BOSTON

A GREAT HEAD

The head of the Longden Magnetic Hammer is the most unique ever devised.

It is strongly magnetic and will start a tack in the smallest corner.

Its claw will remove with ease the most stubborn tack.

It may be used as a screw-driver or box-opener.

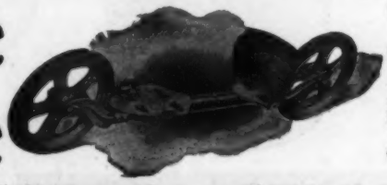
It is made of the best materials and is attractively finished.

This is but one of the 400 trade stimulants that we make.

Let us send our catalogue.

Arcade Mfg. Co., Freeport, Ill.

Automobile Cycle Skate



Our Newest Model. One Size Extension, 10 to 12 in.

Ball bearings, 5-in. rubber-tired wheels, metal parts sheet steel, finely nickel-plated. Retail $10 per pair; with 4-in. wheel, $7.50 per pair.

Every dealer in Hardware, Sporting Goods, etc., will find it profitable to sell our line of Cycle Skates, as they appeal to both young and old, being adapted for use in skating rinks or on smooth sidewalks. Write for catalogue and trade discounts.

CYCLE SKATE AND SPORTING GOODS COMPANY,
37 Park Street, New York

REED'S Flintstone Enameled Steel Ware

Has Trebled Its Sales

within a year. Its sale has been so phenomenal because it is just what every thrifty housewife wants and needs.

Flintstone is light, artistic, seamless, sanitary and durable.

It is the best moderate priced Enameled Steel Ware on the market.

The chemicals used in its manufacture are imported from Germany and Austria in a raw state, which gives Flintstone the advantage over imported wares.

Ten Years' Guarantee

is given with every piece of Flintstone. It is such an attractive seller that one pleased customer begets another.

If you "want to be near the bandwagon" to hear the music—the jingle of profits from Flintstone, write to-day to

REED MANUFACTURING CO.
NEWARK, N. Y.

BRANCH OFFICES

New York Office: Irving Building, Hudson and Chambers Streets; Telephone, Franklin 5820.
Chicago Office: No. 223 W. Twelth St.; Telephone, Monroe 1411.
Cincinnati Office: No. 11 East 2nd Street.
St. Louis Office: 118 North 3rd Street.

Write Us

and tell us if you are handling the

O.K.
Washing Machine

The washing machine that's advertised in all the leading farm journals.

We want to refer inquiries to you.

H. F. BRAMMER MFG. CO.
Dept. B, Davenport, Iowa

"PRE-EMINENTLY THE FINEST"

That's the unanimous opinion of our

SNOWEWHITE

The very latest in Washing Machines. Its essential features combine an

Easy Running Mechanism
Cover for Gearing
Extra Large Tub
Handsome Natural Wood Finish

Write for full description and prices. Both will be interesting.

BENBOW-BRAMMER MFG. CO.
ST. LOUIS, MO.

The Pioneer Washing Machine Manufacturers

The House-Warming Manual

Is beyond all doubt the best book published on practical house heating.

It contains the plans and essays on heating a house submitted in THE AMERICAN ARTISAN House Warming Competition for $300.00 prizes, and is in fact

An Encyclopedia of the Most Modern and Improved Practical Methods of Heating a House by Steam, Hot Water and Warm Air.

A Leading Western Newspaper says:

"The volume is a well-bound and artistically printed and illustrated volume of nearly 300 pages, and contains some masterly essays on steam heating, hot water heating and warm air heating. Nearly every prominent authority in this field is quoted; and an application of principles and improvements suggested covers all technical details in a simplified and practical way. House plans and diagrams accompany the subject matter, which deals specifically with radiation, combustion, ventilation, prices, estimates, and the best and latest methods for placing, connecting and utilizing the apparatus adopted."

Price, Only $3.50 Per Copy.

For sale by all booksellers or the Publisher

DANIEL STERN,
69 Dearborn Street, CHICAGO

One Minute Washer

We want one exclusive Hardware Merchant as Agent in each town in Nebraska and the Black Hills.

Paxton & Gallagher Co.
Omaha, Neb.

The Curtis Hardware Co., Paonia, Colo., write:

"Kindly take out our advertisement for man as we have about 25 applications."

THE WHITE LINE IS THE RIGHT LINE

Highest Speed, Easiest Running and Most Durable Washer Made

White Lily Washers Wash Lily White

The only Ball Bearing Rotary Washer on the Market

The White Rose is Without a Competitor

The Most Perfect Rubber Type of Washer Ever Produced

This complete line sold to one dealer in each town

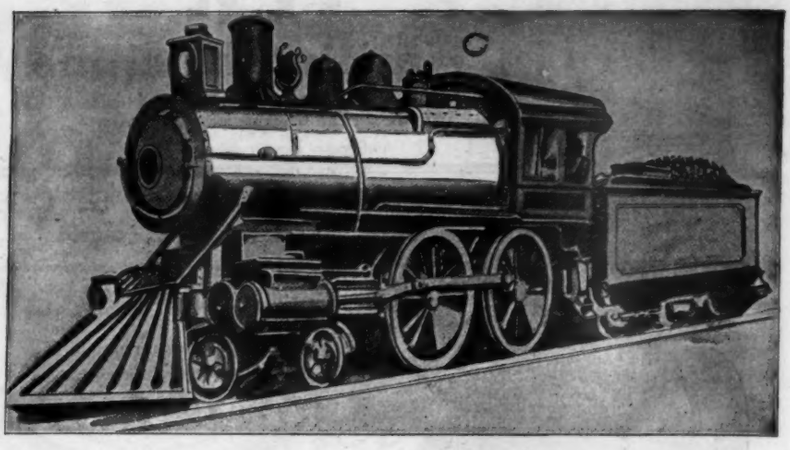
Write for Exclusive Agency

WHITE LILY WASHER CO.

Toledo Ohio **Davenport Iowa**

The Locomotive

travels over an all inclusive network of



rails reaching every section of the great West and centering in Omaha.

LEE-GLASS-ANDREESEN HDW. CO.
Jobbers in Hardware OMAHA

E. C. SIMMONS KEEN KUTTER TRADE ST. LOUIS U.S.A. MARK

Tools and Cutlery

There is NOTHING in doing a large business if a good sized NET PROFIT at the end of the year does not result.

KEEN KUTTER

Advertising Puts Trade Back Into Its Regular Channels

Those who sell a complete line of Keen Kutter goods are making big NET PROFITS because our enormous advertising operations which reach FORTY MILLION people make Keen Kutter Tools and Cutlery

Good Sellers

and every tool sold is an advertisement in itself for the entire line.

We have made into Keen Kutter "Salesmen" the best and strongest publications in this country, which are telling the consumer about Keen Kutter Goods as persistently as the ocean waves. If you carry a complete line of Keen Kutter Goods these silent salesmen also belong to you.

THE BEST IS THE KIND TO SELL

At the annual championship tournament of the Indoor .22 Caliber Rifle League of the United States, held at Grand Rapids, Mich., February 12-17, 1906,

PETERS CARTRIDGES

ESTABLISHED THE WORLD'S RECORD.

2481 OUT OF A POSSIBLE MADE BY W. A. TEWES **2500**

FIRST HONORS

At Zettler Rifle Club Open Tournament, New York, March 10-17, 1906, 100-Shot Match won by Arthur Hubalek, score 2468. Seven of the first ten prize winners used PETERS .22 SHORT CARTRIDGES.
Zimmermann Trophy won by L. P. Ittel. Best Bullseye made by W. Rosenbaum. L. C. Buss and L. P. Ittel made the possible 225 on the Ring Target.

80% OF THE CONTESTANTS IN THESE MATCHES USED PETERS CARTRIDGES—THE SEMI-SMOKELESS KIND

There is as much profit in Peters Ammunition as in other makes—and a lot more satisfaction. This is not mere "talk," but actual fact.

THE PETERS CARTRIDGE COMPANY, CINCINNATI, OHIO.
NEW YORK: 98 CHAMBERS ST., T. H. KELLER, Manager.

Mr. Dealer: You will gain or lose a reputation by the saw you handle. A saw **must** be good. There's a big difference between a good saw and a poor one. People note that difference. Pin your reputation on the most famous saw on earth, the

Disston Saw

Quality Tells

Henry Disston & Sons, Inc.

Keystone Saw, Tool, Steel and File Works
PHILADELPHIA : : : : PA.

STEVENS

"Little Scout" Rifle No. 14

A New Production—A Boy's Rifle—ALREADY IN GREAT DEMAND

A distinct departure from anything on the market. The parts are attached to the action itself, making it very simple. All of the working parts can be easily taken out by simply removing the stock from the barrel, which is attached with a thumb-screw. Action is attached to the barrel and the breech-block drops down when a cartridge is to be inserted or an empty shell extracted. Has a positive, horizontal extractor; 18-inch barrel; open rear and German silver knife-edge front sights; weight, 2½ pounds. Chambered to take the regular .22 Long-rifle R. F. cartridge, but will shoot the .22 Long R. F. and .22 Short R. F. as well.

LIST PRICE - - $2.25

Specify "STEVENS LITTLE SCOUT No. 14" when ordering from your jobber.

Send for complete Catalog and Circulars of Latest STEVENS ADDITIONS

J. STEVENS ARMS AND TOOL COMPANY
460 MAIN STREET
CHICOPEE FALLS, MASS.

McClure's Roofing Tin

Better values for your money in roofing tin than you've ever had before. **Let us prove it.**
Write for samples and prices.

The McClure Co.
Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address
EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

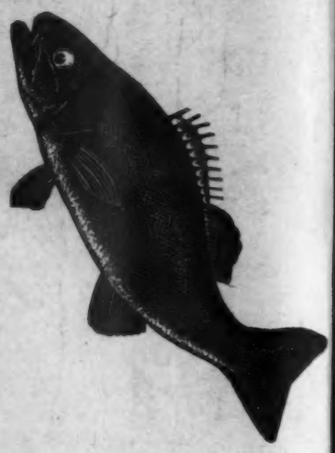
FOLLANSBEE
BROTHERS
COMPANY
MAKERS

PITTSBURGH
LOUISVILLE
BUFFALO
CLEVELAND
NORFOLK
NASHVILLE
MEMPHIS

"SCOTT'S EXTRA COATED" ROOFING TIN
HAS ALWAYS BEEN GOOD
A BUYER TAKES NO CHANCES

PFLUEGER'S
Fishing Tackle

Hooks, Flies,
Trolls, Spinners,
Phantoms, Reels,
Furnished Lines,
Everything in
Fishing Tackle.



NOTICE—Free to any Dealer in Sporting Goods. Sent Express Prepaid, 170-Page Illustrated Catalogue No. F24, and Metal Fish Sign in 8-Color Lithograph

The Enterprise Mfg. Co.,
AKRON, OHIO, U. S. A.

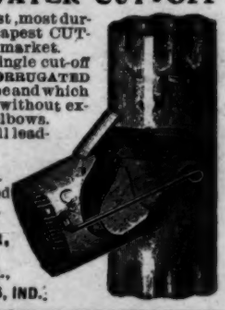
$25 ON 5 TON is what you can save. We make all kinds of scales. Write for prices.
Also B. B. PUMPS and WIND MILLS
Beckman Bros., Des Moines, Ia.

WE WANT THE DEALERS TRADE
Write us.

STAR EXPANSION BOLT CO.
167 Cedar St., N. Y. 142 Lake St., Chicago

Tinners Find Employment
By advertising and using
THE POWERS AUTOMATIC CHIMNEY TOPS
They make chimneys draw, give Tinners employment making stocks, and give the dealers profit
Sold by Hardware Jobbers and Dealers.
Made only by
POWERS BROS.
STREATOR, ILL.
This cut free to dealers.

The "CENTENNIAL" RAIN-WATER CUT-OFF
The strongest, most durable and cheapest CUT-OFF on the market.
The only single cut-off made to fit CORRUGATED and Plain pipe and which can be used without extra pipe or elbows.
For sale by all leading jobbers.
Patent applied for.
Manufactured only by
COONEY & GEIGER,
19 and East South St.,
INDIANAPOLIS, IND.



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